



# Open Source Used In Cisco AppDynamics Cloud Business Metric Config Service 23.6.0

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**In your requests please include the following reference number 78EE117C99-1701207069**

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# 1.1 libjpeg 6b

## 1.1.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

## 1.1.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

## DOCUMENTATION

### ROADMAP

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This file contains the following sections:

OVERVIEW        General description of JPEG and the IJG software.  
LEGAL ISSUES    Copyright, lack of warranty, terms of distribution.  
REFERENCES      Where to learn more about JPEG.  
ARCHIVE LOCATIONS Where to find newer versions of this software.  
RELATED SOFTWARE Other stuff you should get.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO            Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc     How to configure and install the IJG software.  
usage.doc       Usage instructions for cjpeg, djpeg, jpegtran,  
                 rdjpgcom, and wrjpgcom.  
\*.1              Unix-style man pages for programs (same info as usage.doc).  
wizard.doc      Advanced usage instructions for JPEG wizards only.  
change.log      Version-to-version change highlights.

Programmer and internal  
documentation:

libjpeg.doc     How to use the JPEG library in your own programs.  
example.c       Sample code for calling the JPEG library.  
structure.doc   Overview of the JPEG library's internal structure.  
filelist.doc    Road map of IJG files.  
coderrules.doc  Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression

method for full-color and gray-scale images.

JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

## LEGAL ISSUES

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3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

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- (2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
- (3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

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assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch, sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA. ansi2knr.c is NOT covered by the above copyright and conditions, but instead by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

## REFERENCES

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We

highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department  
C-Cube Microsystems, Inc.  
1778 McCarthy Blvd.  
Milpitas, CA 95035  
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

## ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/graphics/jpeg/). This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact [help@uunet.uu.net](mailto:help@uunet.uu.net) for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only <ftp.uu.net> is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12

"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body  
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## RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,  
notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

## FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a

concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.

(For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether

SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net).

# 1.2 javax-inject 1

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Version 2.0, January 2004

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

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

\*

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\*

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

## 1.6 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

# 1.7 failureaccess 1.0.1

## 1.8 commons-fileupload 1.4

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# 1.9 j2objc-annotations 1.3

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it
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```
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```

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## 1.12 giflib 5.2.1

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## 1.13 error\_prone\_annotations 2.3.4

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 */
```

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```
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/Immutable.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/ForOverride.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/Var.java
*
```

/opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/SuppressPackageLocation.java  
\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/IncompatibleModifiers.java  
\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java  
\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CompileTimeConstant.java  
\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/LazyInit.java  
\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/RequiredModifiers.java  
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\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java  
\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CheckReturnValue.java  
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\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/NoAllocation.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/LockMethod.java  
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\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/FormatString.java  
\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/DoNotMock.java  
\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CompatibleWith.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/RestrictedApi.java  
\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/MustBeClosed.java

\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/FormatMethod.java

## 1.14 jctools-core 3.1.0

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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
```

```
  <artifactId>jctools-core</artifactId>
  <groupId>org.jctools</groupId>
  <version>3.1.0</version>
  <name>Java Concurrency Tools Core Library</name>
  <description>Java Concurrency Tools Core Library</description>
  <packaging>bundle</packaging>
```

```
  <dependencies>
    <dependency>
      <groupId>org.hamcrest</groupId>
      <artifactId>hamcrest-all</artifactId>
      <version>${hamcrest.version}</version>
      <scope>test</scope>
    </dependency>
```

```
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>${junit.version}</version>
      <scope>test</scope>
    </dependency>
```

```
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava-testlib</artifactId>
      <version>${guava-testlib.version}</version>
      <scope>test</scope>
    </dependency>
  </dependencies>
```

```
  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-surefire-plugin</artifactId>
        <version>3.0.0-M3</version>
```

```

<configuration>
  <includes>
    <include>*</include>
  </includes>
</configuration>
</plugin>
<plugin>
  <groupId>org.apache.felix</groupId>
  <artifactId>maven-bundle-plugin</artifactId>
  <version>4.2.1</version>
  <extensions>>true</extensions>
  <configuration>
    <instructions>
      <Import-Package>sun.misc;resolution:=optional</Import-Package>
    </instructions>
  </configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-source-plugin</artifactId>
  <version>3.2.0</version>
  <executions>
    <execution>
      <id>attach-sources</id>
      <phase>verify</phase>
      <goals>
        <goal>jar-no-fork</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
    <additionalOptions>
      <additionalOption>-Xdoclint:none</additionalOption>
    </additionalOptions>
    <source>8</source>
  </configuration>
  <executions>
    <execution>
      <id>attach-javadocs</id>
      <goals>
        <goal>jar</goal>
      </goals>
    </execution>
  </executions>

```

```
</executions>
</plugin>
</plugins>
</build>
```

```
<distributionManagement>
<repository>
<id>bintray-jctools-jctools</id>
<name>jctools-jctools</name>
<url>https://api.bintray.com/maven/jctools/jctools/jctools-core/?publish=1</url>
</repository>
</distributionManagement>
```

```
<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>
```

```
<licenses>
<license>
<name>Apache
License, Version 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
<distribution>repo</distribution>
</license>
</licenses>
```

```
<scm>
<url>https://github.com/JCTools/JCTools</url>
<connection>scm:git:https://github.com/JCTools/JCTools</connection>
<tag>HEAD</tag>
</scm>
```

```
<developers>
<developer>
<url>https://github.com/nitsanw</url>
</developer>
<developer>
<url>https://github.com/mjpt777</url>
</developer>
<developer>
<url>https://github.com/RichardWarburton</url>
</developer>
<developer>
<url>https://github.com/kay</url>
</developer>
<developer>
<url>https://github.com/franz1981</url>
</developer>
</developers>
```

```

<prerequisites>
  <maven>3.5.0</maven>
</prerequisites>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>

```

#### Found

in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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

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 \* limitations under the License.  
 \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org.jctools/queues/spec/Ordering.java

\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org.jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java

\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org.jctools/queues/atomic/SpmcAtomicArrayQueue.java

```

*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MessagePassingQueueUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/spec/Preference.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MessagePassingQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SupportsIterator.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscGrowArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpmcArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpMCArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/AbstractEntry.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscChunkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashMapLong.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-

```

```

jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeLongArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashMap.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingIdentityHashMap.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/InternalAPI.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashSet.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/Pow2.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/spec/ConcurrentQueueSpec.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpvcChunkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/ConcurrentAutoTable.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/LinkedQueueNode.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpvcUnboundedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/PortableJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingSetInt.java

```

```

*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeRefArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscCompoundQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCChunkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/QueueFactory.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscUnboundedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCGrowableArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/RangeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseSpSCLinkedArrayQueue.java

```

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## 1.18 guava 30.1-jre

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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/MoreObjects.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ServiceManagerBridge.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Java8Usage.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/AppendableWriter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeToken.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FluentFuture.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AggregateFuture.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeLimiter.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractTransformFuture.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FakeTimeLimiter.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FuturesGetChecked.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java

\*

```
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/CharEscaperBuilder.java
*
```

```
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/annotations/VisibleForTesting.java
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jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/HashingInputStream.java
*
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/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Verify.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CharSequenceReader.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableBiMap.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/IndexedImmutableSet.java
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jar/com/google/common/hash/package-info.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredKeyListMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AllEqualOrdering.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TransformedListIterator.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredEntrySetMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedMultisetBridge.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactLinkedHashMap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredSetMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactHashMap.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/ImmutableEnumMap.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/ForwardingImmutableList.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/ForwardingBlockingDeque.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
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 \*  
 /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/TransformedIterator.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/ForwardingImmutableMap.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/TreeTraverser.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/CompactHashSet.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/DescendingMultiset.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/FilteredEntryMultimap.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/RangeMap.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/ForwardingNavigableSet.java  
 \*  
 /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/TreeRangeMap.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/DescendingImmutableSortedSet.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/AbstractMultimap.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/RegularImmutableAsList.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/EvictingQueue.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/ForwardingNavigableMap.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/ForwardingImmutableSet.java  
 \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
 jar/com/google/common/collect/AbstractNavigableMap.java  
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 */
/**
 * Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
 * version.
 */
```

Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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```

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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/MoreFiles.java
```

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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableBiMap.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
```

```
jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Table.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/EmptyImmutableListMultimap.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Range.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMapKeySet.java
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```

```
*/
/**
 * Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular
 * version.
 */
```

Found in path(s):

```
*/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/ShortsMethodsForWeb.java
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 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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 *
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 */
```

Found in path(s):

```
*/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/SmallCharMatcher.java
```

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableRangeSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/LinearTransformation.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSink.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAddable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SmoothRateLimiter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredKeyMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Parameter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteSink.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Closer.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/Stats.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/html/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/PairedStatsAccumulator.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Element.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSource.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/StatsAccumulator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/hash/SipHashFunction.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/reflect/TypeCapture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/LongAddable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/io/ByteSource.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/ChecksumHashFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/reflect/Invokable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/RateLimiter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/StandardSystemProperty.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/AbstractByteHasher.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/reflect/AbstractInvocationHandler.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/io/BaseEncoding.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/reflect/TypeToInstanceMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/math/PairedStats.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/LongAddables.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ListenableScheduledFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/LongAddables.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/CartesianList.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/io/FileWriteMode.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/reflect/ClassPath.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/xml/package-  
info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableRangeMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ServiceManager.java  
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```
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jar/com/google/common/graph/AbstractBaseGraph.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/BaseGraph.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/Traverser.java
 *
 /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ClosingFuture.java
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 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
 */
```

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/Hashing.java

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/\*\*

\* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain  
\* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available  
\* under GWT but with a slightly different signature.

\*

\* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler  
wouldn't recognize

\* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT  
\* compiler to autostrip the normal server method in order to expose the special, inherited GWT  
\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/Partially.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TopKSelector.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableGraph.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/SuccessorsFunction.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MutableNetwork.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableNetwork.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Graphs.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/InsecureRecursiveDeleteException.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Graph.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/RecursiveDeleteOption.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/PredecessorsFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MutableGraph.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Network.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AtomicDoubleArray.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAdder.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAdder.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Striped64.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Striped64.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/FileBackedOutputStream.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

```

jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Doubles.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListenableFutureTask.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Converter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/internal/Finalizer.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/thirdparty/publicsuffix/TrieParser.java
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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractSequentialIterator.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/SortedMapDifference.java
```

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/SortedMultiset.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/SortedMultisets.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/DenseImmutableTable.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ForwardingFuture.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/primitives/UnsignedBytes.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/net/HostSpecifier.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/JdkFutureAdapters.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/primitives/SignedBytes.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/annotations/GwtIncompatible.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/SparseImmutableTable.java

```

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/ReferenceEntry.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteArrayDataInput.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/html/HtmlEscapers.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

```

```
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/ArrayBasedCharEscaper.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/Escapers.java
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*/
/**
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
* version.
*
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type {@code Comparable}
to use {@link
* ImmutableSortedMap#of\(Comparable, Object\).</b>
*/
```

Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
```

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

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\* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular

\* version.

\*/

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jar/com/google/common/primitives/FloatsMethodsForWeb.java

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

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

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

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableClassToInstanceMap.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableTable.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableAsList.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ArrayTable.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingTable.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TableCollectors.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableEnumSet.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableSortedSet.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableList.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableTable.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSetMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ComparisonChain.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableList.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractIndexedListIterator.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EmptyImmutableSetMultimap.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Monitor.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/package-info.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedLists.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Ascii.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Strings.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/package-info.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/package-info.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Atomics.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Equivalence.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/Beta.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListeningExecutorService.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java

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jar/com/google/common/collect/GwtTransient.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/AtomicLongMap.java  
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jar/com/google/common/base/PatternCompiler.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/CommonMatcher.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/CommonPattern.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/JdkPattern.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractGraph.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MoreCollectors.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableValueGraph.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ElementOrder.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ValueGraphBuilder.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/NetworkConnections.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Comparators.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/GraphConstants.java  
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/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ForwardingGraph.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractNetwork.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/EdgesConnecting.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/GraphBuilder.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/EndpointPairIterator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

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jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/AbstractValueGraph.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/UndirectedGraphConnections.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/LinkedHashMapMultimapGwtSerializationDependencies.java
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jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/DirectedGraphConnections.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/AbstractGraphBuilder.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MapIteratorCache.java
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*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardMutableGraph.java
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```
*/
```

```
/**
```

```
* Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular
* version.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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```
*/
/**
 * Holder for web specializations of methods of { @code Ints}. Intended to be empty for regular
 * version.
 */
```

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```
*/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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jar/com/google/common/collect/ImmutableSortedAsList.java
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/package-info.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Function.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Primitives.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableWeakReference.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/DeadEvent.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/package-info.java

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/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LineReader.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Predicate.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/package-info.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Subscribe.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MultiInputStream.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Flushables.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Supplier.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Suppliers.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/DirectExecutor.java  
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jar/com/google/common/collect/EnumMultiset.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Functions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/LittleEndianDataOutputStream.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteStreams.java
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jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
```

jar/com/google/common/util/concurrent/AsyncCallable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/FarmHashFingerprint64.java  
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/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/io/ReaderInputStream.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/MacHashFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ConsumingQueueIterator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/CombinedFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/Platform.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/InterruptibleTask.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/AggregateFutureState.java  
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jar/com/google/common/graph/IncidentEdgeSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/CompactHashing.java  
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- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMapEntry.java
- \*
- /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractIterator.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Sets.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultiset.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Multimaps.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/BiMap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Multisets.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingQueue.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingConcurrentMap.java
- \*
- /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ReverseNaturalOrdering.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedSetMultimap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/NullsFirstOrdering.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableSet.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EnumHashBiMap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Multiset.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingListIterator.java  
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\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMapBasedMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingIterator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedMap.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
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jar/com/google/common/collect/SetMultimap.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
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jar/com/google/common/collect/HashMultiset.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingCollection.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ClassToInstanceMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Maps.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingObject.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MapDifference.java  
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/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EnumBiMap.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingLock.java  
\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractHashFunction.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingCondition.java

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jar/com/google/common/primitives/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Internal.java
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jar/com/google/common/collect/Streams.java
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/ToDoubleRounder.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/BigDecimalMath.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Java8Compatibility.java  
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jar/com/google/common/util/concurrent/ExecutionSequencer.java  
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\* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's  
\* java.util.HashMap

class.

\*/

Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Striped.java

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Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableSortedMultiset.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/GeneralRange.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedMultiset.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedIterable.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RangeSet.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractRangeSet.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Count.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedIterables.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMultiset.java

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Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedInts.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingExecutorService.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractScheduledService.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedExecutionException.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Weigher.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheStats.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractCompositeHashFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Hashing.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractLoadingCache.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/ForwardingLoadingCache.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheBuilderSpec.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Optional.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Ticker.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Present.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedInteger.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

```

jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/PrimitiveSink.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingExecutorService.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Absent.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/Hasher.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/Crc32cHashFunction.java

```

```

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/Murmur3_128HashFunction.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Enums.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/RemovalCause.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/package-
info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ExecutionError.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

```

```
jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/ForwardingCache.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/BloomFilter.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/HashFunction.java
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```

```

/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned
array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

```

Found in path(s):

```

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ObjectArrays.java

```

# 1.19 httpcomponents-core 4.4.13

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# 1.24 commons-codec 1.14

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```

Found in path(s):

```
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Visitor.java
*
 /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Member.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/CtNewWrappedConstructor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtConstructor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/Mnemonic.java
*
 /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewClass.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtArray.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/Parser.java
```

\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/DefineClassHelper.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/SubroutineScanner.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtMember.java  
 \*  
 /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ExceptionTable.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/ConstructorCall.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/StubGenerator.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/FieldInfo.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/CodeGen.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/CodeAnalyzer.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/IntQueue.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/runtime/DotClass.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/URLClassPath.java  
 \*  
 /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/ProxyObjectInputStream.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/InstructionPrinter.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/NestMembersAttribute.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/CannotReflectException.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/LocalVariableAttribute.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/CallExpr.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/AttributeInfo.java  
 \*  
 /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/KeywordTable.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/CodeIterator.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/SymbolTable.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/Subroutine.java

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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/runtime/Inner.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/DefinePackageHelper.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/LineNumberAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/scopedpool/ScopedClassPoolFactory.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/Modifier.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/CannotCompileException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/Expr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/convert/TransformFieldAccess.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/stackmap/BasicBlock.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/Callback.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/MethodInfo.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ClassFile.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtMethod.java
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jar/javassist/compiler/ast/CondExpr.java
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jar/javassist/bytecode/EnclosingMethodAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/SecurityActions.java

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\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassMap.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/TypeChecker.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/FieldDecl.java  
 \*  
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 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/NestHostAttribute.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/AccessFlag.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/ASTree.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/StackMap.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/NotFoundException.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/Metalevel.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Variable.java  
 \*  
 /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/Sample.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/Instanceof.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ClassFilePrinter.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Stmnt.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/framedump.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationImpl.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/AssignExpr.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/Bytecode.java  
 \*  
 /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ConstantAttribute.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/runtime/Desc.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/ProxyFactory.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/FactoryHelper.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewMethod.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-

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jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/InstanceOfExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtClassType.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/NoSuchClassError.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtBehavior.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ByteArray.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/rmi/RemoteRef.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/stackmap/TypedBlock.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/MemberCodeGen.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/Reflection.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ClassFileWriter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/Frame.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/Compiler.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/FramePrinter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/DoubleConst.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/convert/TransformAfter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/Analyzer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/SerializedProxy.java

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\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/MemberResolver.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/StringL.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/Util.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ParameterAnnotationsAttribute.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/web/BadHttpRequest.java  
 \*  
 /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/BadBytecode.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassPool.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/Proxy.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewWrappedMethod.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/Type.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/SyntheticAttribute.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/ObjectImporter.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/ExprEditor.java  
 \*  
 /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ProceedHandler.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ExceptionsAttribute.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformAccessArrayField.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/AnnotationDefaultAttribute.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/scopedpool/SoftValueHashMap.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/Loader.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtField.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/Dump.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/MethodDecl.java  
 \*  
 /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/CompileError.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/Handler.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ByteStream.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-

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jar/javassist/bytecode/stackmap/Tracer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/HotSwapAgent.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/FieldAccess.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/web/Viewer.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/ProxyObject.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/convert/TransformCall.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/MethodCall.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/SerialVersionUID.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/convert/Transformer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/MultiArrayType.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/Metaobject.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/JvstTypeChecker.java

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\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformReadField.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/Loader.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/StackMapTable.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassPoolTail.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassPath.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/HotSwapper.java  
 \*  
 /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/Javac.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/ControlFlow.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/Opcode.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/Executor.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/web/Webserver.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/LongVector.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/ProxyObjectOutputStream.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/CastExpr.java  
 \*  
 /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/DeprecatedAttribute.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtClass.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/Translator.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Sample.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/CodeAttribute.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/NewArray.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassClassPath.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/IntConst.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/MethodHandler.java  
 \*  
 /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformNew.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolRepository.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/Cast.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/NoFieldException.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/SyntaxError.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-

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jar/javassist/compiler/TokenId.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Pair.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/convert/TransformWriteField.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/CtNewConstructor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ConstPool.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/MultiType.java
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```

```
/*
* Javassist, a Java-bytecode translator toolkit.
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*/
```

Found in path(s):

```
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/EnumMemberValue.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
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jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/BooleanMemberValue.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/DoubleMemberValue.java

```

## 1.26 zt 1.14

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```

* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/AsiExtraField.java
*

```

/opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/extra/ZipLong.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/extra/ZipExtraField.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/extra/ZipShort.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/extra/ExtraFieldUtils.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/extra/ZipConstants.java  
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\*  
/opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/commons/IOUtils.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/commons/FileUtilsV2\_2.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/commons/StringBuilderWriter.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/commons/FilenameUtils.java  
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- \* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ZTFileUtil.java
- \* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ZipInfoCallback.java
- \* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/NameMapper.java
- \*
- /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/FileSource.java
- \* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ZipEntryUtil.java
- \* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/timestamps/PreJava8TimestampStrategy.java
- \* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/Zips.java
- \* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/timestamps/TimestampStrategy.java
- \* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ByteSource.java
- \* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/timestamps/Java8TimestampStrategy.java
- \* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ZipEntrySource.java
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- /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/IdentityNameMapper.java
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- \* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/timestamps/TimestampStrategyFactory.java
- \* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ZipEntryCallback.java

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\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/JumpInsnNode.java  
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\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/InsnList.java  
\*  
/opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/util/CheckSignatureAdapter.java  
\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java  
\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/FrameNode.java  
\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/AnnotationVisitor.java  
\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/util/ASMifierMethodVisitor.java  
\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/util/ASMifierAbstractVisitor.java  
\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/MethodInsnNode.java  
\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/analysis/Subroutine.java  
\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-

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jar/org/objectweb/asm/tree/InnerClassNode.java
*
/opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/ClassAdapter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/util/ASMifierFieldVisitor.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/util/TraceAbstractVisitor.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/FieldNode.java
*
/opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/ClassNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
*
/opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/util/TraceFieldVisitor.java

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* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/analysis/Frame.java
*
/opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/util/AbstractVisitor.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/EmptyVisitor.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/signature/SignatureVisitor.java
*
/opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/MethodAdapter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/GeneratorAdapter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
*
/opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/util/ASMifierAnnotationVisitor.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-

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jar/org/objectweb/asm/commons/LocalVariablesSorter.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/tree/AnnotationNode.java  
 \*  
 /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/commons/AnalyzerAdapter.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/commons/CodeSizeEvaluator.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/tree/IntInsnNode.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/Attribute.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/tree/TypeInsnNode.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/ClassWriter.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/Frame.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/ClassReader.java  
 \*  
 /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/tree/InsnNode.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/commons/RemappingClassAdapter.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/util/CheckMethodAdapter.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/util/ASMifierClassVisitor.java  
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 jar/org/objectweb/asm/signature/SignatureWriter.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/tree/MemberNode.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/util/CheckFieldAdapter.java  
 \*  
 /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/tree/analysis/AnalyzerException.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/tree/TableSwitchInsnNode.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/Edge.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/util/CheckAnnotationAdapter.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/MethodWriter.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/Opcodes.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-  
 jar/org/objectweb/asm/tree/FieldInsnNode.java  
 \* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-

jar/org/objectweb/asm/tree/analysis/Analyzer.java

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jar/org/objectweb/asm/xml/SAXCodeAdapter.java

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jar/org/objectweb/asm/xml/SAXClassAdapter.java

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jar/org/objectweb/asm/xml/ASMContentHandler.java

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jar/org/objectweb/asm/util/ASMifiable.java

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jar/org/objectweb/asm/commons/package.html

\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-

jar/org/objectweb/asm/tree/analysis/package.html

\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/package.html

\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/util/package.html

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/opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/attrs/package.html

\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/package.html

\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-

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

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

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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Strings.java

\*

/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Ascii.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ContiguousSet.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Monitor.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Equivalence.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SortedLists.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java

\*

/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/package-info.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/annotations/Beta.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/annotations/package-info.java

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jar/com/google/common/eventbus/SubscriberRegistry.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/base/MoreObjects.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/math/Quantiles.java

\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/eventbus/Subscriber.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/eventbus/Dispatcher.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/ListenerCallQueue.java  
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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingFuture.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Splitter.java

\*

/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ByteArrayDataInput.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/annotations/GwtIncompatible.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/MapMakerInternalMap.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Service.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/annotations/GwtCompatible.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java

\*

/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Cut.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/Escapers.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/HostSpecifier.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/LocalCache.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/LineProcessor.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ByteArrayDataOutput.java  
 \*  
 /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/CacheBuilder.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractService.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SparseImmutableTable.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableTable.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeResolver.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/MapMaker.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/ReferenceEntry.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/InternetDomainName.java  
 \*  
 /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/html/HtmlEscapers.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/DenseImmutableTable.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/UrlEscapers.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Callables.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SettableFuture.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/SignedBytes.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java  
 \*

```
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/base/Platform.java
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```

```
*/
```

```
/**
```

```
* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
* version.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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\* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's

\* `java.util.HashMap`

class.

\*/

Found in path(s):

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jar/com/google/common/hash/package-info.java

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*/
/**
* Holder for extra methods of { @code Objects } only in web. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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* Holder for web specializations of methods of { @code Doubles }. Intended to be empty for regular
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*/
```

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```
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/package-info.java  
\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/FinalizablePhantomReference.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Suppliers.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Charsets.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/LineReader.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/CharStreams.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Predicate.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ByteStreams.java  
\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Primitives.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/LineBuffer.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableWeakReference.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Predicates.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Functions.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/AbstractIterator.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/package-info.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/HashBiMap.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/eventbus/DeadEvent.java  
\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/base/FinalizableReference.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/eventbus/Subscribe.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/base/Objects.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/base/Supplier.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/io/MultiInputStream.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/Interners.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/EnumMultiset.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/ExecutionList.java  
\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/package-info.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/base/Defaults.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/base/Function.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/base/FinalizableReferenceQueue.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/io/Closeables.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/eventbus/AllowConcurrentEvents.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/io/Files.java  
\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/eventbus/AsyncEventBus.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/io/LittleEndianDataOutputStream.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/eventbus/EventBus.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/io/CountingOutputStream.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/base/Throwables.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/ListenableFuture.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/DirectExecutor.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/CountingInputStream.java

\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/LittleEndianDataInputStream.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/Flushables.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/package-info.java

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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeVisitor.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/VerifyException.java

\*

/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Runnables.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Verify.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/HashingInputStream.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Utf8.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredMultimapValues.java  
\*

/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/CharSequenceReader.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/PercentEscaper.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java  
\*

/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Booleans.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/internal/Finalizer.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Doubles.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/CharMatcher.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Floats.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Bytes.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java

\*

/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/FluentIterable.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Stopwatch.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/FileBackedOutputStream.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Shorts.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Ints.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Chars.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/MultiReader.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Joiner.java

\*

/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/UnicodeEscaper.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Longs.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/InetAddresses.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/Escaper.java

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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/Striped64.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/LongAdder.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/Striped64.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java

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```
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/MultimapBuilder.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/SortedIterable.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/SortedIterables.java
```

```
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/Count.java
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```
*/
```

```
/**
```

```
* Returns an array containing all of the elements in the specified collection. This method
```

```
* returns the elements in the order they are returned by the collection's iterator. The returned
```

```
* array is "safe" in that no references to it are maintained by the collection. The caller is
```

```
* thus free to modify the returned
```

```
array.
```

```
*
```

```
* <p>This method assumes that the collection size doesn't change while the method is running.
```

```
*
```

```
* <p>TODO(kevinb): support concurrently modified collections?
```

```
*
```

```
* @param c the collection for which to return an array of elements
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ObjectArrays.java
```

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 */
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in { @code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type { @code Comparable}
 * to use { @link
 *   ImmutableSortedMap#of(Comparable, Object)}.</b>
 */
```

Found in path(s):

```
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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jar/com/google/common/base/JdkPattern.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/base/PatternCompiler.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/base/CommonPattern.java  
\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/base/CommonMatcher.java  
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jar/com/google/common/collect/FilteredEntrySetMultimap.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/SortedMultisetBridge.java  
\*

/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/DescendingImmutableSortedSet.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/FilteredKeySetMultimap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ImmutableEnumMap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/FilteredEntryMultimap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/DescendingMultiset.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/TreeRangeMap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ForwardingNavigableSet.java  
 \*  
 /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/AllEqualOrdering.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/TreeTraverser.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/RegularImmutableAsList.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/CompactHashMap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/TransformedIterator.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
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 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
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 jar/com/google/common/collect/TransformedListIterator.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
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 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/AbstractMultimap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/CompactHashSet.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/EvictingQueue.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/FilteredSetMultimap.java

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/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/CompactLinkedHashMap.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/CompactLinkedHashSet.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RangeMap.java

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/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredMultimap.java

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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/CollectPreconditions.java  
\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMapKeySet.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
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 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/Table.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ImmutableSortedSet.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/UnmodifiableIterator.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
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 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
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 /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/TreeBasedTable.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/RegularImmutableBiMap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/Platform.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ImmutableListMultimap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/Tables.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/Range.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/HashBasedTable.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ImmutableMultimap.java  
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 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/Collections2.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ImmutableMultiset.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/StandardTable.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/Serialization.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/StandardRowSortedTable.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/PeekingIterator.java  
 \*  
 /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/EmptyImmutableListMultimap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

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

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jar/com/google/common/hash/ImmutableSupplier.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

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

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jar/com/google/common/hash/LittleEndianByteArray.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

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

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/hash/MacHashFunction.java

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/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ReaderInputStream.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Platform.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ConsumingQueueIterator.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AsyncCallable.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/FarmHashFingerprint64.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/CombinedFuture.java

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\* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain  
\* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available  
\* under GWT but with a slightly different signature.

\*

\* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler  
wouldn't recognize

\* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT  
\* compiler to autostrip the normal server method in order to expose the special, inherited GWT  
\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Partially.java

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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/io/CharSource.java  
\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/CartesianList.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/ImmutableRangeMap.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/escape/package-info.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/hash/LongAddable.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/io/BaseEncoding.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/io/ByteSource.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/math/PairedStatsAccumulator.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/reflect/AbstractInvocationHandler.java  
\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/reflect/ClassPath.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/math/StatsAccumulator.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/io/Closer.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/xml/package-info.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

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jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/html/package-info.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/hash/ChecksumHashFunction.java

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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableRangeSet.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredKeyMultimap.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/LongAddable.java

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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Java8Usage.java

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jar/com/google/common/math/BigDecimalMath.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/io/Java8Compatibility.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java  
\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/hash/Java8Compatibility.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/math/ToDoubleRounder.java  
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jar/com/google/common/collect/ObjectCountLinkedHashMap.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/graph/Traverser.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/graph/AbstractBaseGraph.java  
\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/graph/BaseGraph.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/ObjectCountHashMap.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/ClosingFuture.java  
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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractHasher.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java  
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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedLongs.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/Crc32cHashFunction.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/CacheLoader.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/AbstractCache.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/package-info.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AsyncFunction.java  
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/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/ParseRequest.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/Funnel.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/RemovalNotification.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/TreeRangeSet.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/Weigher.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/hash/HashCode.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

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jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/base/Ticker.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/math/DoubleMath.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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jar/com/google/common/base/Enums.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/base/Present.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/AbstractScheduledService.java
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/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/cache/Cache.java

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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AtomicLongMap.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/RemovalCause.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/PairwiseEquivalence.java  
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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Absent.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/ForwardingCache.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/FunctionalEquivalence.java  
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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableMultiset.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedInteger.java  
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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java

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/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/ImmutableIntArray.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/ImmutableLongArray.java

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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/SuccessorsFunction.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/Graph.java

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/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/PredecessorsFunction.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/ImmutableGraph.java

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/graph/Graphs.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
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jar/com/google/common/graph/ImmutableNetwork.java  
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Found in path(s):

```
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/ForwardingSetMultimap.java  
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/ForwardingSortedSetMultimap.java  
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/RowSortedTable.java  
*  
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/ForwardingImmutableCollection.java  
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/AbstractSequentialIterator.java  
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/UnmodifiableListIterator.java  
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/ForwardingListMultimap.java  
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/MinMaxPriorityQueue.java  
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/SortedMapDifference.java
```

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```
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/IndexedImmutableSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/BaseImmutableMultimap.java
```

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Found in path(s):

```
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/SortedMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/SortedMultisets.java
```

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Found in path(s):

```
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ArrayTable.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/EmptyImmutableSetMultimap.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
```

jar/com/google/common/collect/AbstractIndexedListIterator.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/ImmutableEnumSet.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/ImmutableTable.java  
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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/graph/AbstractNetwork.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/graph/UndirectedMultiNetworkConnections.java

```

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/LinkedHashMapGwtSerializationDependencies.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/HashMapGwtSerializationDependencies.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/StandardMutableGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/AbstractGraphBuilder.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

```

```
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/StandardMutableNetwork.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/AbstractValueGraph.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/ValueGraphBuilder.java
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jar/com/google/common/util/concurrent/TimeoutFuture.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/annotations/VisibleForTesting.java  
\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/FuturesGetChecked.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/io/AppendableWriter.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/Futures.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/reflect/TypeToken.java  
\*  
/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/escape/CharEscaperBuilder.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/FluentFuture.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/AbstractTransformFuture.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/AggregateFuture.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/escape/CharEscaper.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/CollectionFuture.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/util/concurrent/ImmediateFuture.java  
\*

```
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/base/CaseFormat.java
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```

```
*/
```

```
/*
```

```
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
```

```
*
```

```
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* hereby disclaims
```

```
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```

```
*/
```

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```
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/base/SmallCharMatcher.java
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```
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```

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\* the License.  
\*/  
/\*\*  
\* Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular  
\* version.  
\*/

Found in path(s):

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/primitives/ShortsMethodsForWeb.java  
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Found in path(s):

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/graph/IncidentEdgeSet.java  
\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
jar/com/google/common/collect/CompactHashing.java  
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\*/

/\*\*

\* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular

\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/primitives/IntsMethodsForWeb.java

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\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

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

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

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

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

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

\*

/opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

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

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

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

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

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

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

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

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

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

\* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/NullsLastOrdering.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ImmutableSet.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ForwardingMapEntry.java  
 \*  
 /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ClassToInstanceMap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/AbstractMapEntry.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/SingletonImmutableSet.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ListMultimap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/SortedSetMultimap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/TreeMultiset.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/LinkedListMultimap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/Interner.java  
 \*  
 /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/UsingToStringOrdering.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/AbstractIterator.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/Maps.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ForwardingIterator.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ComparatorOrdering.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ForwardingMap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ForwardingSortedMap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/SetMultimap.java  
 \*  
 /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/Lists.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ForwardingMultiset.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-  
 jar/com/google/common/collect/ForwardingMultimap.java  
 \* /opt/cola/permits/1148655839\_1618904031.03/0/guava-30-1-1-android-sources-

```

jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/MutableClassToInstanceMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/package-info.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/Iterators.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/LinkedHashMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ConcurrentHashMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/Multimap.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/BiMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/Iterables.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/AbstractListMultimap.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/Multimaps.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ReverseNaturalOrdering.java

```

```

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/Sets.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/CompoundOrdering.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ReverseOrdering.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ArrayListMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ForwardingList.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/HashMultiset.java
*
/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/EnumHashBiMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/LinkedHashMultiset.java

```

## 1.33 commons-compress 1.21

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## 1.34 okhttp 2.7.4

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```
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
jar/com/squareup/okhttp/internal/framed/FrameReader.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
jar/com/squareup/okhttp/internal/framed/Spdy3.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
jar/com/squareup/okhttp/internal/framed/FramedStream.java
*
```

```
/opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
jar/com/squareup/okhttp/internal/framed/FramedConnection.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
jar/com/squareup/okhttp/internal/http/HeaderParser.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
jar/com/squareup/okhttp/internal/framed/FrameWriter.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
jar/com/squareup/okhttp/internal/http/HttpDate.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
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```
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
jar/com/squareup/okhttp/internal/framed/HeadersMode.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
jar/com/squareup/okhttp/internal/framed/ErrorCode.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
jar/com/squareup/okhttp/internal/NamedRunnable.java
*
/opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/Handshake.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/Response.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
jar/com/squareup/okhttp/internal/RouteDatabase.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
jar/com/squareup/okhttp/Authenticator.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/MediaType.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
jar/com/squareup/okhttp/internal/framed/NameValuePairBlockReader.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
jar/com/squareup/okhttp/internal/InternalCache.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-
```

jar/com/squareup/okhttp/internal/framed/Http2.java

\*

/opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-

jar/com/squareup/okhttp/internal/framed/Hpack.java

\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/Dispatcher.java

\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/Route.java

\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/Request.java

\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-

jar/com/squareup/okhttp/internal/http/AuthenticatorAdapter.java

\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-

jar/com/squareup/okhttp/internal/framed/Variant.java

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jar/com/squareup/okhttp/internal/http/RouteException.java

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jar/com/squareup/okhttp/internal/http/StreamAllocation.java

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jar/com/squareup/okhttp/internal/io/FileSystem.java

\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-

jar/com/squareup/okhttp/internal/ConnectionSpecSelector.java

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jar/com/squareup/okhttp/internal/http/RequestException.java

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\*  
/opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/Headers.java  
\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/tls/OkHostnameVerifier.java  
\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/http/HttpEngine.java  
\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/tls/CertificateChainCleaner.java  
\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/tls/DistinguishedNameParser.java  
\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/OptionalMethod.java  
\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/io/RealConnection.java  
\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/Connection.java  
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\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/tls/RealTrustRootIndex.java

\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/tls/AndroidTrustRootIndex.java

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* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/framed/Settings.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/Dns.java
*
/opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/OkHttpClient.java
* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/http/RouteSelector.java
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\*  
/opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/RequestBody.java  
\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/Protocol.java  
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\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/http/HttpStream.java  
\*  
\* /opt/cola/permits/1196234293\_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/http/Http1xStream.java  
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## 1.42 log4j-jcl 2.17.1

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jar/org/apache/xerces/dom3/as/ElementEditAS.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASObject.java

\*

```
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASDataType.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASContentModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/NodeEditAS.java
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*/
/**
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If
so, this content model should not be used
 * for any purpose other than checking unique particle attribution
 *
 * @return a boolean that says whether this content has been compacted for UPA
 */

```

Found in path(s):

```

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java

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*/
/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new LSParser. The newly constructed parser may
 *
then be configured by means of its DOMConfiguration
 * object, and used to parse documents by means of its parse
 * method.
 * @param mode The mode argument is either
 * MODE_SYNCHRONOUS or MODE_ASYNCHRONOUS, if
 * mode is MODE_SYNCHRONOUS then the
 * LSParser that is created will operate in synchronous
 * mode, if it's MODE_ASYNCHRONOUS then the
 * LSParser that is created will operate in asynchronous
 * mode.
 * @param schemaType An absolute URI representing the type of the schema

```

- \* language used during the load of a `Document` using the
- \* newly created `LSParser`. Note that no lexical checking
- \* is done on the absolute URI. In order to create a
- \* `LSParser` for any kind of schema types (i.e. the
- \* `LSParser` will be free to use any schema

found), use the value

- \* `null`.
- \* **Note:** For W3C XML Schema [[XML Schema Part 1](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/)]
- \* , applications must use the value
- \* `"http://www.w3.org/2001/XMLSchema"`. For XML DTD [[XML 1.0](http://www.w3.org/TR/2000/REC-xml-20001006/)],
- \* applications must use the value
- \* `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
- \* are outside the scope of the W3C and therefore should recommend an
- \* absolute URI in order to use this method.
- \* **@return** The newly created `LSParser` object. This
- \* `LSParser` is either synchronous or asynchronous
- \* depending on the value of the `mode` argument.
- \* **Note:** By default, the newly created `LSParser`
- \* does not contain a `DOMErrorHandler`, i.e. the value of
- \* the "[error-handler](http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler)" configuration parameter is `null`. However, implementations
- \* may provide a default error handler at creation time. In that case,
- \* the initial value of the `"error-handler"` configuration
- \* parameter on the new created `LSParser` contains a
- \* reference to the default error handler.
- \* **@exception** `DOMException`
- \* `NOT_SUPPORTED_ERR`: Raised if the requested mode or schema type is
- \* not supported.

\*/

Found in path(s):

\*/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

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- \*
- /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ShadowedSymbolTable.java
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- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptgroupElement.java
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- /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
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- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
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- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSParticle.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLWmlElementImpl.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
- \*
- /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/StringList.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/wml/WMLTimerElement.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/opti/SchemaDOMImplementation.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom/DeferredElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/html/dom/HTMLHtmlElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/stax/DefaultNamespaceContext.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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jar/org/apache/xerces/jaxp/TeeXMLDocumentFilterImpl.java  
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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableSectionElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMStateSet.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTitleElementImpl.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ShortListImpl.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/ElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/events/UIEventImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Method.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/EntityReferenceImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/ByteList.java

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLNSDTDValidator.java

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredAttrImpl.java

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLIElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/ElementSchemePointer.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultElement.java

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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/SoftReferenceGrammarPool.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/AttrNSImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/DurationImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTdElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-

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jar/org/apache/xerces/impl/XMLEntityDescription.java
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jar/org/apache/xerces/xni/parser/XMLDTDScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/SecurityManager.java
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/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/ParentNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/ShortList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DeferredAttrNSImpl.java
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jar/org/apache/xerces/impl/dtd/DTDGrammar.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredNotationImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDocumentImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLNSDocumentScannerImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ReadOnlyGrammarPool.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMErrorImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLAttributesImpl.java

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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/DocumentBuilderImpl.java

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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/DatatypeValidator.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTextAreaElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/AttributePSVI.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/Token.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredNode.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/XML11Serializer.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeGroupTraverser.java

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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLGoElement.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/SimpleLocator.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/MessageFormatter.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLErrorReporter.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSLoaderImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XML11NamespaceBinder.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/SecuritySupport.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFormElementImpl.java

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/XPath.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLMenuElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLCollectionImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-

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jar/org/apache/xerces/xni/XMLDocumentFragmentHandler.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/SAXInputSource.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XPointerParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/datatype/SerializedDuration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/io/UTF8Reader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSNotationDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLBigElement.java
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jar/org/apache/xerces/util/XMLChar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSImplementationImpl.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/RangeExceptionImpl.java  
\*  
/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/PSVIProvider.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaException.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSNamedMap.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLStyleElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/validation/ValidationManager.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EntityResolver2Wrapper.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSElementDecl.java  
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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DOMParser.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLAttributeDecl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLIElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSParticleDecl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/ContentModelValidator.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-

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jar/org/apache/xerces/util/StAXInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/impl/dv/xs/PrecisionDecimalDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/dom/NamedNodeMapImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/XSFacet.java

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 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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jar/org/apache/xerces/stax/XMLEventFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/XMLEntityManager.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLOptGroupElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptionElement.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLPElement.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOptionElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLElement.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLParamElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11DTDDVFactoryImpl.java

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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParseException.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLAnchorElementImpl.java

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityHandler.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.java

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLFieldsetElementImpl.java

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/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
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/\*\*

\* used to check the 3 constraints against each complex type

\* (should be each model group):

\* Unique Particle

Attribution, Particle Derivation (Restriction),

\* Element Declarations Consistent.

\*/

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jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java

\*

/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/YearDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/DateDV.java

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jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java

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jar/org/apache/xerces/impl/dv/xs/MonthDV.java

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jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java

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jar/org/apache/xerces/impl/dv/xs/TimeDV.java

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jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java

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jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java

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jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java

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jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java

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jar/org/apache/xerces/impl/dv/xs/DayDV.java

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jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DOMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XPointerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/SAXMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/Component.java

\*

\*/opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/InstanceFactory.java

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- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/package-info.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntKey.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/StringKey.java
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- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Beta.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/ClassKey.java
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- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/Binds.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Preconditions.java
- \*
- /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/DoubleCheck.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-
- jar/dagger/multibindings/ElementsIntoSet.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntoMap.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/package-info.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntoSet.java

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\* /opt/cola/permits/1257772269\_1643010353.74/0/paranamer-2-5-1-sources-jar/com/thoughtworks/paranamer/ParameterNamesNotFoundException.java

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\* /opt/cola/permits/1257772269\_1643010353.74/0/paranamer-2-5-1-sources-

jar/com/thoughtworks/paranamer/JavadocParanamer.java

## 1.46 jctools-core 3.3.0

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\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/AtomicQueueFactory.java

\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/ConcurrentCircularArrayQueue.java

\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java

\*

/opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/spec/Preference.java

\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/package-info.java

\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/spec/Ordering.java

\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/IndexedQueueSizeUtil.java

\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java

\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MPMCUnboundedXaddChunk.java

\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java

\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/RangeUtil.java

```

*
/opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/util/PaddedAtomicLong.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/QueueFactory.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/LinkedQueueNode.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/MessagePassingQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
*
/opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/MpscLinkedQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/MpscChunkedArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/SpSCArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/util/UnsafeRefArrayAccess.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/maps/AbstractEntry.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/maps/NonBlockingSetInt.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
*
/opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/SpMCArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/BaseSpSCLinkedArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/BaseLinkedQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/maps/NonBlockingHashSet.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-

```

jar/org/jctools/util/UnsafeJvmInfo.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java  
\*  
/opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscCompoundQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/maps/NonBlockingIdentityHashMap.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscUnboundedXaddChunk.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/maps/ConcurrentAutoTable.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/LinkedListAtomicNode.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java  
\*  
/opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SpSCLinkedQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscGrowArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/spec/ConcurrentQueueSpec.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/UnsafeAccess.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscUnboundedArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpmcArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SupportsIterator.java  
\*  
/opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SpSCChunkedArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/UnsafeLongArrayAccess.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-

jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-  
jar/org/jctools/queues/SpSCUnboundedArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/InternalAPI.java  
\*  
/opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-  
jar/org/jctools/maps/NonBlockingHashMap.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-  
jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-  
jar/org/jctools/queues/SpSCGrowableArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-  
jar/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-  
jar/org/jctools/util/PortableJvmInfo.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-  
jar/org/jctools/queues/BaseMpscLinkedListArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-  
jar/org/jctools/queues/atomic/SpMCAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-  
jar/org/jctools/maps/NonBlockingHashMapLong.java  
\*  
/opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/Pow2.java

## 1.47 avro 1.11.0

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 */
```

Found in path(s):

```
* /opt/cola/permits/1258811491_1643111603.33/0/annotations-4-1-1-4-sources-
jar/android/annotation/SuppressLint.java
* /opt/cola/permits/1258811491_1643111603.33/0/annotations-4-1-1-4-sources-
jar/android/annotation/TargetApi.java
```

## 1.49 animal-sniffer-annotation 1.19

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\* /opt/cola/permits/1258876677\_1643115784.16/0/animal-sniffer-annotations-1-19-sources-jar/META-INF/maven/org.codehaus.mojo/animal-sniffer-annotations/pom.xml

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# 1.50 jakarta-inject-api 2.0.1

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### ## Source Code

The project maintains the following source code repositories:

<https://github.com/eclipse-ee4j/injection-api>  
<https://github.com/eclipse-ee4j/injection-spec>  
<https://github.com/eclipse-ee4j/injection-tck>

### ## Third-party Content

This project leverages the following third party content.

None

### ## Cryptography

None

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## 1.51 error\_prone\_annotations 2.9.0

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Found in path(s):

\* /opt/cola/permits/1262997566\_1643611399.53/0/error-prone-annotations-2-9-0-jar/META-INF/maven/com.google.errorprone/error\_prone\_annotations/pom.xml

## 1.52 error\_prone\_annotations 2.3.3

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```
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
jar/com/google/errorprone/annotations/MustBeClosed.java
*
/opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
jar/com/google/errorprone/annotations/FormatString.java
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\* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/DoNotCall.java

\* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java

\*

/opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/CheckReturnValue.java

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\* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/concurrent/LockMethod.java

\* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java

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- \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
- \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/Immutable.java
- \*
- /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/RequiredModifiers.java
- \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/Var.java
- \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/ForOverride.java
- \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
- \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
- \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/IncompatibleModifiers.java

## 1.53 picocontainer 2.15

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- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/ProviderAdapter.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/ComponentLifecycle.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

```

jar/org/picocontainer/security/CustomPermissionsURLClassLoader.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/ComponentMonitorStrategy.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Stored.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/FactoryInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/references/SimpleReference.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Guarded.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/Provider.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/CompositeInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Injector.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/InjectInto.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/references/ThreadLocalMapObjectReference.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/CompositeInjection.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/Injector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/MultiInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/ObjectReference.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Decorated.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/Reinjection.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/references/ThreadLocalReference.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/Reinjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/MultiInjection.java
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- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/classname/ClassName.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/classname/ClassLoadingPicoContainer.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/parameters/DefaultConstructorParameter.java
- \*

- /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/classname/DefaultClassLoadingPicoContainer.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/parameters/NullParameter.java

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- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/StartableLifecycleStrategy.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/visitors/MethodCallingVisitor.java
- \*

- /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/AbstractMonitoringLifecycleStrategy.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/visitors/TraversalCheckingVisitor.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/converters/Converter.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/ReflectionLifecycleStrategy.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/PicoVisitor.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/ComponentAdapter.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

```
jar/org/picocontainer/lifecycle/JavaEE5LifecycleStrategy.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/Converters.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/LifecycleStrategy.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/visitors/VerifyingVisitor.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/lifecycle/DefaultLifecycleState.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/lifecycle/CompositeLifecycleStrategy.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/lifecycle/ReflectionLifecycleException.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/visitors/AbstractPicoVisitor.java
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jar/org/picocontainer/injectors/AnnotatedFieldInjection.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/NamedFieldInjector.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Automated.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Locked.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/NameBinding.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/AdaptingBehavior.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/PropertyApplicator.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/AnnotatedFieldInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/monitors/LifecycleComponentMonitor.java
```

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/PicoContainer.java  
\*  
/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Automating.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/ComponentFactory.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/adapters/AbstractAdapter.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/Injectors.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Characteristics.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/PropertyApplying.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/annotations/Inject.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/containers/TransientPicoContainer.java  
\*  
/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/DefaultPicoContainer.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/NullLifecycleStrategy.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/parameters/BasicComponentParameter.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Synchronizing.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/NamedMethodInjector.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/PicoVerificationException.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/PicoException.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/annotations/Cache.java  
\*  
/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/containers/CommandLinePicoContainer.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/TypedFieldInjection.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/adapters/InstanceAdapter.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/TypedFieldInjector.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/NamedFieldInjection.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

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jar/org/picocontainer/parameters/CollectionComponentParameter.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Locking.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/annotations/Nullable.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Behaviors.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/AbstractInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/BehaviorFactory.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/PicoBuilder.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/InjectionFactory.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/AnnotatedMethodInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/ImplementationHiding.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/HiddenImplementation.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/parameters/ComponentParameter.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/containers/ImmutablePicoContainer.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Synchronized.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/SetterInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/PicoClassNotFoundException.java

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jar/org/picocontainer/monitors/NullComponentMonitor.java

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jar/org/picocontainer/behaviors/AbstractBehavior.java

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jar/org/picocontainer/behaviors/Decorating.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/behaviors/FieldDecorating.java

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jar/org/picocontainer/monitors/ComponentMonitorHelper.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

jar/org/picocontainer/monitors/WriterComponentMonitor.java

\*

/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

jar/org/picocontainer/monitors/ConsoleComponentMonitor.java

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jar/org/picocontainer/containers/AbstractDelegatingMutablePicoContainer.java

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jar/org/picocontainer/injectors/PrimitiveMemberChecker.java

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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/MethodInjector.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Intercepting.java

\*

/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/PicoLifecycleException.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/ForgetfulConstructorInjection.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Intercepted.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/containers/SystemPropertiesPicoContainer.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/containers/CommandLineArgumentsPicoContainer.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/ParameterNameBinding.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/parameters/AbstractParameter.java

\*

/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/SingleMemberInjector.java

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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

jar/org/picocontainer/containers/EmptyPicoContainer.java

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jar/org/picocontainer/Disposable.java

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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Guarding.java

\*

/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/SetterInjection.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/MethodInjection.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/AnnotatedMethodInjection.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/AdaptingInjection.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/ConstructorInjection.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/ThreadCaching.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

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jar/org/picocontainer/injectors/ConstructorInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Storing.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Caching.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/PicoCompositionException.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/OptInCaching.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Cached.java
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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/GsonBuildConfig.java

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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/DateTypeAdapter.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/ConstructorConstructor.java

\*

/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/UnsafeAllocator.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/LazilyParsedNumber.java

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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonTreeReader.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java

\*

/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/TypeAdapterFactory.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/JsonReaderInternalAccess.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TypeAdapters.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/TypeAdapter.java

\*

/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonTreeWriter.java

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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonElement.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonObject.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonArray.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/FieldNamingStrategy.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/annotations/SerializedName.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonDeserializationContext.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/Excluder.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/FieldNamingPolicy.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/$Gson$Preconditions.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonSerializationContext.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonParseException.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/ObjectConstructor.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/Gson.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonIOException.java
```

```
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/reflect/TypeToken.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonDeserializer.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/annotations/Expose.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/Primitives.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/GsonBuilder.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonSerializer.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/annotations/Since.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonPrimitive.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/ExclusionStrategy.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/annotations/Until.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/InstanceCreator.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonNull.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/annotations/JsonAdapter.java
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jar/com/google/gson/internal/LinkedHashMap.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/LinkedTreeMap.java
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jar/com/google/gson/stream/JsonReader.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
```

jar/com/google/gson/stream/JsonScope.java

\*

/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-

jar/com/google/gson/stream/JsonToken.java

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jar/com/google/gson/internal/reflect/PreJava9ReflectionAccessor.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-

jar/com/google/gson/internal/reflect/ReflectionAccessor.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-

jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java

\*

/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-

jar/com/google/gson/internal/PreJava9DateFormatProvider.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-

jar/com/google/gson/internal/JavaVersion.java

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jar/com/google/gson/ToNumberPolicy.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-  
jar/com/google/gson/ToNumberStrategy.java  
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```
jar/com/google/gson/JsonStreamParser.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/LongSerializationPolicy.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/FieldAttributes.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonParser.java
```

## 1.64 jackson-dataformat-yaml 2.13.3

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```

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2006-Jan-27

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#

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#

# Don't put empty lines into this file!

#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

```
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
EOF
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```
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```

```
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```
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```

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```
</pre>
```

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# 1.68 protobuf-java 3.19.4

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- \* /opt/cola/permits/1444784973\_1666041526.196175/0/protobuf-java-3-19-4-3-jar/google/protobuf/descriptor.proto
- \* /opt/cola/permits/1444784973\_1666041526.196175/0/protobuf-java-3-19-4-3-jar/google/protobuf/timestamp.proto
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- \* /opt/cola/permits/1444784973\_1666041526.196175/0/protobuf-java-3-19-4-3-jar/google/protobuf/field\_mask.proto
- \* /opt/cola/permits/1444784973\_1666041526.196175/0/protobuf-java-3-19-4-3-jar/google/protobuf/source\_context.proto
- \* /opt/cola/permits/1444784973\_1666041526.196175/0/protobuf-java-3-19-4-3-jar/google/protobuf/type.proto
- \* /opt/cola/permits/1444784973\_1666041526.196175/0/protobuf-java-3-19-4-3-jar/google/protobuf/compiler/plugin.proto
- \* /opt/cola/permits/1444784973\_1666041526.196175/0/protobuf-java-3-19-4-3-jar/google/protobuf/empty.proto
- \* /opt/cola/permits/1444784973\_1666041526.196175/0/protobuf-java-3-19-4-3-jar/google/protobuf/struct.proto
- \* /opt/cola/permits/1444784973\_1666041526.196175/0/protobuf-java-3-19-4-3-jar/google/protobuf/api.proto
- \* /opt/cola/permits/1444784973\_1666041526.196175/0/protobuf-java-3-19-4-3-jar/google/protobuf/any.proto

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Manifest-Version: 1.0  
Automatic-Module-Name: com.google.protobuf  
Bnd-LastModified: 1643389670477  
Build-Jdk: 1.8.0\_181-google-v7  
Built-By: acozzette  
Bundle-Description: Core Protocol Buffers library. Protocol Buffers are a way of encoding structured data in an efficient yet extensible format.  
Bundle-DocURL: <https://developers.google.com/protocol-buffers/>  
Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>  
Bundle-ManifestVersion: 2  
Bundle-Name: Protocol Buffers [Core]  
Bundle-SymbolicName: com.google.protobuf  
Bundle-Version: 3.19.4  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.google.protobuf;version="3.19.4"  
Import-Package: sun.misc;resolution:=optional,com.google.protobuf;version="[3.19,4)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"  
Tool: Bnd-3.0.0.201509101326

Found in path(s):

\* /opt/cola/permits/1444784973\_1666041526.196175/0/protobuf-java-3-19-4-3-jar/META-INF/MANIFEST.MF

## 1.69 gson 2.10

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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-

jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/TypeAdapterFactory.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/JsonReaderInternalAccess.java  
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/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/TypeAdapter.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/bind/TypeAdapters.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/bind/JsonTreeReader.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/bind/ObjectTypeAdapter.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java  
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jar/com/google/gson/internal/bind/ArrayTypeAdapter.java  
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jar/com/google/gson/internal/bind/JsonTreeWriter.java  
\*  
/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java  
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jar/com/google/gson/internal/bind/DateTypeAdapter.java

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jar/com/google/gson/internal/LazilyParsedNumber.java

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jar/com/google/gson/internal/bind/TreeTypeAdapter.java

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jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java

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jar/com/google/gson/internal/ConstructorConstructor.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/UnsafeAllocator.java  
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jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java  
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jar/com/google/gson/internal/JavaVersion.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/PreJava9DateFormatProvider.java  
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jar/com/google/gson/internal/Streams.java  
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jar/com/google/gson/JsonSyntaxException.java  
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* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/FieldNamingPolicy.java  
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jar/com/google/gson/internal/Primitives.java  
*  
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jar/com/google/gson/FieldNamingStrategy.java  
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jar/com/google/gson/annotations/Expose.java  
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/ObjectConstructor.java  
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* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/annotations/Until.java  
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-  
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* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/ExclusionStrategy.java  
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/$Gson$Preconditions.java  
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonElement.java  
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonSerializer.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/InstanceCreator.java  
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/Gson.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/reflect/TypeToken.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonNull.java  
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/\$Gson\$Types.java

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```
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/ToNumberPolicy.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/ToNumberStrategy.java
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Found in path(s):

```
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/FieldAttributes.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/JsonStreamParser.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/LongSerializationPolicy.java
*
```

/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonParser.java  
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jar/com/google/gson/stream/JsonReader.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/stream/JsonToken.java
*
```

```
/opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/stream/JsonWriter.java
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* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java  
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/annotations/JsonAdapter.java
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```
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/bind/NumberTypeAdapter.java
```

## 1.70 zlib 1.2.13-r1

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* /opt/cola/permits/1512417657_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/IMarkerFactory.java
* /opt/cola/permits/1512417657_1673636624.6005318/0/slf4j-api-1-6-6-sources-
jar/org/slf4j/helpers/BasicMDCAdapter.java
* /opt/cola/permits/1512417657_1673636624.6005318/0/slf4j-api-1-6-6-sources-
jar/org/slf4j/helpers/MarkerIgnoringBase.java
* /opt/cola/permits/1512417657_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/spi/MDCAdapter.java
* /opt/cola/permits/1512417657_1673636624.6005318/0/slf4j-api-1-6-6-sources-
jar/org/slf4j/helpers/SubstituteLoggerFactory.java
```

\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/LoggerFactory.java

\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/impl/StaticLoggerBinder.java

\*

/opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/helpers/NOPMDCAdapter.java

\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/MarkerFactory.java

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\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/spi/LocationAwareLogger.java

\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/helpers/FormattingTuple.java

\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/spi/MarkerFactoryBinder.java

\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/helpers/MessageFormatter.java

\*

/opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/helpers/NamedLoggerBase.java

\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java

\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/MDC.java

\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/helpers/Util.java

\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/helpers/NOPLogger.java

\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/ILoggerFactory.java

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\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/helpers/NOPLoggerFactory.java

\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/helpers/BasicMarker.java

\*

/opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/Marker.java

\* /opt/cola/permits/1512417657\_1673636624.6005318/0/slf4j-api-1-6-6-sources-jar/org/slf4j/impl/StaticMarkerBinder.java

## 1.72 jackson-datatype-jdk8 2.14.2

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## 1.73 jackson 2.14.2

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|             |                    |         |
|-------------|--------------------|---------|
| Ext headers | GL/ glxext.h       | Khronos |
|             | GL/ glxext.h       | Khronos |
|             | GL/ wglxext.h      | Khronos |
|             | KHR/ khrplatform.h | Khronos |

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Mesa 3-D  
graphics library

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include/GL/glxext.h
include/GL/wglxext.h :
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 */
```

Found in path(s):

```
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/representer/SafeRepresenter.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/parser/Parser.java
```

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java

\*

/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/ValueToken.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/StreamEndEvent.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/AliasEvent.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/ScalarEvent.java

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/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/EmitterState.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/StreamStartEvent.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CommentEvent.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/AliasToken.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/Construct.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/ImplicitTuple.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/CustomClassLoaderConstructor.java

\*

/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/Property.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/Production.java

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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/composer/ComposerException.java

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jar/org/yaml/snakeyaml/representer/Represent.java  
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 \* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-  
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 \* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-  
 jar/org/yaml/snakeyaml/scanner/SimpleKey.java  
 \* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-  
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 \* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-

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jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/tokens/TagToken.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/tokens/Token.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
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*
/opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/tokens/StreamEndToken.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/introspector/PropertyUtils.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/tokens/TagTuple.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/introspector/MissingProperty.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/Event.java
*

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/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentType.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java

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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java

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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/META-INF/maven/org.yaml/snakeyaml/pom.xml

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/**
 * A Base64 encoder/decoder.
 *
 * <p>
 * This class is used to encode and decode data in Base64 format as described in RFC 1521.
 *
 * <p>
 * Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.
 * source-code.biz/base64coder/java</a><br>
 * Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>
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 */
```

Found in path(s):

```
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java
```

# 1.81 openjdk 17.0.4

## 1.81.1 Available under license :

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## c-libutl 20160225
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2006-Jan-27

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\*

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\*/

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----  
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```
include/GL/glex.h
include/GL/glxext.h
include/GL/wglxext.h :
```

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## Bert Belder: wepoll v 1.5.8

### wepoll License

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wepoll - epoll for Windows

<https://github.com/piscisaureus/wepoll>

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jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
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\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java

\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java

\*

/opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socksx/package-info.java

\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java

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\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponse.java  
\*  
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\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponse.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java  
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\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/package-info.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksResponse.java  
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\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequest.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksRequest.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java  
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\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksCommonUtils.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponse.java  
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/opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequest.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java  
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\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthResponse.java  
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/opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java  
\* /opt/cola/permits/1629578959\_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java  
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jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandResponse.java
* /opt/cola/permits/1629578959_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-
jar/io/netty/handler/codec/socks/UnknownSocksRequest.java
* /opt/cola/permits/1629578959_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-
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* /opt/cola/permits/1629578959_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java
* /opt/cola/permits/1629578959_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-
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jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
* /opt/cola/permits/1629578959_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java
*
/opt/cola/permits/1629578959_1681819594.8287127/0/netty-codec-socks-4-1-91-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java
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## 1.89 netty-transport-native-unix-common

### 4.1.91.Final

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\* /opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/netty\_unix\_limits.c  
\*  
\* /opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/netty\_unix\_util.c  
\* /opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/netty\_unix\_util.h  
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\* /opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/io/netty/channel/unix/Limits.java  
\* /opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java  
\* /opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/netty\_unix\_limits.h  
\* /opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/io/netty/channel/unix/PeerCredentials.java

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\* /opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/io/netty/channel/unix/Unix.java

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/opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/io/netty/channel/unix/package-info.java

\* /opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/io/netty/channel/unix/IovArray.java

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\* /opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/io/netty/channel/unix/SegmentedDatagramPacket.java

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\* /opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java

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/opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/io/netty/channel/unix/Errors.java

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jar/io/netty/channel/unix/DomainSocketChannelConfig.java
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jar/netty_unix_errors.h
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jar/netty_unix_filedescriptor.h
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jar/netty_unix_errors.c
* /opt/cola/permits/1629578825_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-
jar/netty_unix_socket.h
* /opt/cola/permits/1629578825_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-
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jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1629578825_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-
jar/io/netty/channel/unix/Socket.java
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* /opt/cola/permits/1629578825_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-
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* /opt/cola/permits/1629578825_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-
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* /opt/cola/permits/1629578825_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-
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\* /opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/io/netty/channel/unix/GenericUnixChannelOption.java

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\* /opt/cola/permits/1629578825\_1681819594.8488796/0/netty-transport-native-unix-common-4-1-91-final-sources-jar/io/netty/channel/unix/RawUnixChannelOption.java

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\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/bootstrap/FailedChannel.java

\*

/opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java

\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/internal/package-info.java

\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java

\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java

\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/internal/ChannelUtils.java

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\*

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\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/socket/DuplexChannelConfig.java

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\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

\*

/opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/pool/ChannelPool.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java  
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\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java  
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/opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java  
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\*  
/opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/group/ChannelGroupException.java  
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\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/group/ChannelGroup.java  
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/opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java  
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jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
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/opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/bootstrap/ChannelFactory.java
*
/opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/DefaultMessageSizeEstimator.java
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jar/io/netty/channel/ChannelInboundInvoker.java
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jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/bootstrap/ServerBootstrapConfig.java
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/opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
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jar/io/netty/channel/SelectStrategy.java
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jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/socket/DuplexChannel.java
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jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/bootstrap/AbstractBootstrapConfig.java
*
/opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/group/VoidChannelGroupFuture.java
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jar/io/netty/channel/ExtendedClosedChannelException.java

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jar/io/netty/channel/ChannelHandlerMask.java

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jar/io/netty/channel/EventLoopTaskQueueFactory.java

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\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/PendingWriteQueue.java

\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/AbstractEventLoop.java

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```

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* under the License.
*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline }.
*
* <h3>Sub-types</h3>
* <p>
* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
subtypes:
* <ul>
* <li>{ @link
ChannelInboundHandler } to handle inbound I/O events, and</li>
* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>
* <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>
* <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }
* object. A { @link ChannelHandler } is supposed to interact with the
* { @link ChannelPipeline } it belongs to via a context object. Using the
* context object, the { @link ChannelHandler } can pass events upstream or
* downstream, modify the pipeline dynamically,
* or store the information
* (using { @link AttributeKey }s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A { @link ChannelHandler } often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*

```



```

* { @code @Sharable }
* public class DataServerHandler extends { @link SimpleChannelInboundHandler } &lt; Message &gt; {
*     private final { @link AttributeKey } &lt; { @link Boolean } &gt;; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth") };
*
*     { @code @Override }
*     public void channelRead({ @link ChannelHandlerContext } ctx, Message message) {
*         { @link Attribute } &lt; { @link Boolean } &gt;; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
* </pre>

```

\* Now that the

state of the handler is attached to the { @link ChannelHandlerContext }, you can add the

\* same handler instance to different pipelines:

```

* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer } &lt; { @link Channel } &gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override }
*     public void initChannel({ @link Channel } channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>

```

\*

\*

\* <h4>The { @code @Sharable } annotation</h4>

\* <p>

\* In the example above which used an { @link AttributeKey },

\* you might have noticed the { @code @Sharable } annotation.

\* <p>

\* If a { @link ChannelHandler } is annotated with the { @code @Sharable }

\* annotation, it means you can create an instance of the handler just once and

\* add it to one or more { @link ChannelPipeline }s multiple times without

\* a race condition.

\* <p>

\* If this annotation is not specified, you have to create a new handler  
\* instance every time you add it to a pipeline because it has unshared state  
\* such as member variables.  
\* <p>  
\* This annotation is provided for documentation purpose, just like  
\* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.  
\*  
\* <h3>Additional resources worth reading</h3>  
\* <p>  
\* Please refer to the { @link ChannelHandler }, and  
\* { @link ChannelPipeline } to find out more about inbound and outbound operations,  
\* what fundamental differences they have, how they flow in a pipeline, and how to handle  
\* the operation in your application.  
\*/

Found in path(s):

\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/ChannelHandler.java

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\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/ServerChannelRecvByteBufAllocator.java

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jar/io/netty/channel/oio/OioByteStreamChannel.java  
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jar/io/netty/channel/AbstractCoalescingBufferQueue.java  
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- \* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/FileRegion.java
- \* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
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- /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java
- \* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java
- \* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java
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- \* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/ChannelPipelineException.java
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- \* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/ChannelPromise.java
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- \* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-jar/io/netty/channel/ChannelHandlerContext.java
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 \* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
 jar/io/netty/channel/oio/package-info.java  
 \* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
 jar/io/netty/channel/ChannelFutureListener.java  
 \* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-

jar/io/netty/channel/ChannelPromiseNotifier.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
jar/io/netty/channel/ChannelOutboundHandlerAdapter.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
jar/io/netty/channel/group/package-info.java  
\*  
/opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
jar/io/netty/channel/FixedRecvByteBufAllocator.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
jar/io/netty/channel/SucceededChannelFuture.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
jar/io/netty/channel/ChannelOption.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
jar/io/netty/channel/SingleThreadEventLoop.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
jar/io/netty/channel/nio/NioEventLoop.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
jar/io/netty/channel/socket/DatagramPacket.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
jar/io/netty/channel/embedded/EmbeddedSocketAddress.java  
\*  
/opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
jar/io/netty/channel/AbstractChannelHandlerContext.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
jar/io/netty/channel/socket/ServerSocketChannelConfig.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
jar/io/netty/channel/MultithreadEventLoopGroup.java  
\* /opt/cola/permits/1629578952\_1680777700.298524/0/netty-transport-4-1-91-final-sources-  
jar/io/netty/channel/local/LocalServerChannel.java

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Found in path(s):

```
* /opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/SimpleUserEventChannelHandler.java
* /opt/cola/permits/1629578952_1680777700.298524/0/netty-transport-4-1-91-final-sources-
jar/io/netty/channel/socket/nio/NioChannelOption.java
```

# 1.91 netty-resolver 4.1.91.Final

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Found in path(s):

```
* /opt/cola/permits/1629578930_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-
jar/io/netty/resolver/HostsFileEntriesProvider.java
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Found in path(s):

\* /opt/cola/permits/1629578930\_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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\* /opt/cola/permits/1629578930\_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-jar/io/netty/resolver/package-info.java

\* /opt/cola/permits/1629578930\_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java

\* /opt/cola/permits/1629578930\_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-jar/io/netty/resolver/NameResolver.java

\*

/opt/cola/permits/1629578930\_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-jar/io/netty/resolver/SimpleNameResolver.java

\* /opt/cola/permits/1629578930\_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-jar/io/netty/resolver/AddressResolverGroup.java

\* /opt/cola/permits/1629578930\_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-jar/io/netty/resolver/NoopAddressResolver.java

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\* /opt/cola/permits/1629578930\_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-jar/io/netty/resolver/HostsFileEntries.java

\* /opt/cola/permits/1629578930\_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

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Found in path(s):

\* /opt/cola/permits/1629578930\_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

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Found in path(s):

```
* /opt/cola/permits/1629578930_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-
jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1629578930_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-
jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
*
/opt/cola/permits/1629578930_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-
jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1629578930_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-
jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1629578930_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-
jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1629578930_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-
jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1629578930_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-
jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1629578930_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-
jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1629578930_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-
jar/io/netty/resolver/InetNameResolver.java
* /opt/cola/permits/1629578930_1681819823.8194368/0/netty-resolver-4-1-91-final-sources-
jar/io/netty/resolver/HostsFileEntriesResolver.java
```

## 1.92 netty-codec-http 4.1.91.Final

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```
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
```

jar/io/netty/handler/codec/http/cors/CorsConfigBuilder.java

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\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameEncoder.java

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\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java  
\*

/opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java

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\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java  
\*

/opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java

\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java

\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java

\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java

\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java

```

* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaders.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java
*
/opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/SpdySynStreamFrame.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
*
/opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/cors/package-info.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandshakeHandler.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java
*
/opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/FullHttpRequest.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibEncoder.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/spdy/SpdyDataFrame.java
*

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/opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/SpdyPingFrame.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrame.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/http/FullHttpResponse.java  
\*  
/opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/http/FullHttpMessage.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameEncoder.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java  
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/opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/SpdyVersion.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java  
\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpResponse.java

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- /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
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\* /opt/cola/permits/1629578949\_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java  
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jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakeException.java
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* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
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* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
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* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/multipart/DiskAttribute.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker07.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpData.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/HttpResponseEncoder.java
*
/opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/websocketx/BinaryWebSocketFrame.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker13.java

```

```

* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/HttpObjectAggregator.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/HttpResponse.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java
*
/opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/websocketx/package-info.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpHeaders.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/HttpContentDecoder.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/HttpConstants.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/LastHttpContent.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java
*
/opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/HttpVersion.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/rtsp/RtspVersions.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/rtsp/RtspHeaders.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/multipart/FileUpload.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpRequest.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java
* /opt/cola/permits/1629578949_1680777667.5129566/0/netty-codec-http-4-1-91-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpDataFactory.java

```

## 1.93 netty-handler-proxy 4.1.91.Final

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Found in path(s):

\* /opt/cola/permits/1629578931\_1680777684.3678513/0/netty-handler-proxy-4-1-91-final-sources-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml

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\*/

Found in path(s):

\* /opt/cola/permits/1629578931\_1680777684.3678513/0/netty-handler-proxy-4-1-91-final-sources-jar/io/netty/handler/proxy/package-info.java

\* /opt/cola/permits/1629578931\_1680777684.3678513/0/netty-handler-proxy-4-1-91-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java

\*

/opt/cola/permits/1629578931\_1680777684.3678513/0/netty-handler-proxy-4-1-91-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java

\* /opt/cola/permits/1629578931\_1680777684.3678513/0/netty-handler-proxy-4-1-91-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java

\* /opt/cola/permits/1629578931\_1680777684.3678513/0/netty-handler-proxy-4-1-91-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java

\* /opt/cola/permits/1629578931\_1680777684.3678513/0/netty-handler-proxy-4-1-91-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java

\* /opt/cola/permits/1629578931\_1680777684.3678513/0/netty-handler-proxy-4-1-91-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java

# 1.94 netty 4.1.91.Final

## 1.94.1 Available under license :

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
```

```
  <artifactId>jctools-core</artifactId>
  <groupId>org.jctools</groupId>
  <version>3.1.0</version>
  <name>Java Concurrency Tools Core Library</name>
  <description>Java Concurrency Tools Core Library</description>
  <packaging>bundle</packaging>
```

```
  <dependencies>
    <dependency>
      <groupId>org.hamcrest</groupId>
      <artifactId>hamcrest-all</artifactId>
      <version>${hamcrest.version}</version>
      <scope>test</scope>
    </dependency>
```

```
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>${junit.version}</version>
      <scope>test</scope>
    </dependency>
```

```
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava-testlib</artifactId>
      <version>${guava-testlib.version}</version>
      <scope>test</scope>
    </dependency>
  </dependencies>
```

```
  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-surefire-plugin</artifactId>
        <version>3.0.0-M3</version>
```

```

<configuration>
  <includes>
    <include>*</include>
  </includes>
</configuration>
</plugin>
<plugin>
  <groupId>org.apache.felix</groupId>
  <artifactId>maven-bundle-plugin</artifactId>
  <version>4.2.1</version>
  <extensions>>true</extensions>
  <configuration>
    <instructions>
      <Import-Package>sun.misc;resolution:=optional</Import-Package>
    </instructions>
  </configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-source-plugin</artifactId>
  <version>3.2.0</version>
  <executions>
    <execution>
      <id>attach-sources</id>
      <phase>verify</phase>
      <goals>
        <goal>jar-no-fork</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
    <additionalOptions>
      <additionalOption>-Xdoclint:none</additionalOption>
    </additionalOptions>
    <source>8</source>
  </configuration>
  <executions>
    <execution>
      <id>attach-javadocs</id>
      <goals>
        <goal>jar</goal>
      </goals>
    </execution>
  </executions>

```

```
</executions>
</plugin>
</plugins>
</build>
```

```
<distributionManagement>
<repository>
<id>bintray-jctools-jctools</id>
<name>jctools-jctools</name>
<url>https://api.bintray.com/maven/jctools/jctools/jctools-core/?publish=1</url>
</repository>
</distributionManagement>
```

```
<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>
```

```
<licenses>
<license>
<name>Apache
License, Version 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
<distribution>repo</distribution>
</license>
</licenses>
```

```
<scm>
<url>https://github.com/JCTools/JCTools</url>
<connection>scm:git:https://github.com/JCTools/JCTools</connection>
<tag>HEAD</tag>
</scm>
```

```
<developers>
<developer>
<url>https://github.com/nitsanw</url>
</developer>
<developer>
<url>https://github.com/mjpt777</url>
</developer>
<developer>
<url>https://github.com/RichardWarburton</url>
</developer>
<developer>
<url>https://github.com/kay</url>
</developer>
<developer>
<url>https://github.com/franz1981</url>
</developer>
</developers>
```

```

<prerequisites>
  <maven>3.5.0</maven>
</prerequisites>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>

```

#### Found

in path(s):

\* /opt/cola/permits/1629578961\_1681533568.115673/0/netty-common-4-1-91-final-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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

Manifest-Version: 1.0

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.common

Built-By: norman

Bnd-LastModified: 1680521397750

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Import-Package: sun.misc;resolution:=optional,com.oracle.svm.core.anno

tate;resolution:=optional,io.netty.util;resolution:=optional,io.netty

.util.concurrent;resolution:=optional,io.netty.util.internal;resoluti

on:=optional,io.netty.util.internal.logging;resolution:=optional,java

x.security.cert;resolution:=optional,org.apache.commons.logging;resol

ution:=optional;version="[1.2,2)",org.apache.log4j;resolution:=option

al;version="[2.17,3)",org.apache.logging.log4j;resolution:=optional;v

ersion="[2.17,3)",org.apache.logging.log4j.message;resolution:=option

al;version="[2.17,3)",org.apache.logging.log4j.spi;resolution:=option

al;version="[2.17,3)",org.slf4j;resolution:=optional;version="[1.7,2)

",org.slf4j.helpers;resolution:=optional;version="[1.7,2)",org.slf4j.

spi;resolution:=optional;version="[1.7,2)",reactor.blockhound;resolut

ion:=optional,reactor.blockhound.integration;resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

DynamicImport-Package: \*  
Export-Package: io.netty.util;uses:="io.netty.util.concurrent,io.netty.util.internal";version="4.1.91",io.netty.util.collection;version="4.1.91",io.netty.util.concurrent;uses:="io.netty.util.internal";version="4.1.91",io.netty.util.internal;uses:="io.netty.util,io.netty.util.concurrent,io.netty.util.internal.logging,javax.security.cert,reactor.blockhound,reactor.blockhound.integration";version="4.1.91",io.netty.util.internal.logging;version="4.1.91",io.netty.util.internal.svm;version="4.1.91"  
Bundle-Name: Netty/Common  
Build-Jdk-Spec: 1.8  
Implementation-Title: Netty/Common  
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.  
Automatic-Module-Name: io.netty.common  
Implementation-Version: 4.1.91.Final  
Bundle-ManifestVersion: 2  
Bundle-Vendor: The Netty Project  
Tool: Bnd-6.3.1.202206071316  
Implementation-Vendor: The Netty Project  
Bundle-Version: 4.1.91.Final  
Created-By: Apache Maven Bundle Plugin 5.1.8  
Build-Jdk: 1.8.0\_252  
Implementation-URL: <https://netty.io/netty-common/>

Found in path(s):

\* /opt/cola/permits/1629578961\_1681533568.115673/0/netty-common-4-1-91-final-jar/META-INF/MANIFEST.MF

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Found in path(s):

\* /opt/cola/permits/1629578961\_1681533568.115673/0/netty-common-4-1-91-final-jar/META-INF/native-image/io.netty/netty-common/native-image.properties

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io.netty.util.internal.Hidden$NettyBlockHoundIntegration
```

Found in path(s):

```
* /opt/cola/permits/1629578961_1681533568.115673/0/netty-common-4-1-91-final-jar/META-
INF/services/reactor.blockhound.integration.BlockHoundIntegration
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Found in path(s):

```
* /opt/cola/permits/1629578961_1681533568.115673/0/netty-common-4-1-91-final-jar/META-
INF/maven/io.netty/netty-common/pom.xml
```

## 1.95 netty-handler 4.1.91.Final

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Found in path(s):

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java

\*

/opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/address/package-info.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java

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\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-

jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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Found in path(s):

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/SslHandler.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/logging/LogLevel.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java

\*

/opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/package-info.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/stream/ChunkedStream.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/logging/package-info.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java

\*

/opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/timeout/TimeoutException.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/stream/ChunkedFile.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java

```
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutHandler.java
*
/opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutException.java
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* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java
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\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-  
jar/io/netty/handler/ssl/OpenSslCertificateCompressionConfig.java

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jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-  
jar/io/netty/handler/ssl/BouncyCastlePemReader.java

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\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

\*  
/opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/traffic/package-info.java

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\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java

\*  
/opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/ClientAuth.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java  
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jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/pcap/EthernetPacket.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/pcap/PcapWriteHandler.java
*
/opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/pcap/package-info.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/pcap/TCPpacket.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/pcap/PcapWriter.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/pcap/IPPacket.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/pcap/UDPPacket.java
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jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilter.java
*
/opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/SslClosedEngineException.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
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jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
*
/opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
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jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
*
```

```
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jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/Conscrypt.java
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jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
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* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
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/opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/flush/FlushConsolidationHandler.java
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* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
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jar/io/netty/handler/ssl/OpenSslCertificateException.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-  
jar/io/netty/handler/flush/package-info.java  
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jar/io/netty/handler/ssl/PemPrivateKey.java  
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jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-  
jar/io/netty/handler/ssl/PemEncoded.java  
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jar/io/netty/handler/ssl/Java8SslUtils.java  
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jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java  
\*  
/opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-  
jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-  
jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-  
jar/io/netty/handler/ssl/PemX509Certificate.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-  
jar/io/netty/handler/ssl/DelegatingSslContext.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-  
jar/io/netty/handler/flow/package-info.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-  
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jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/PemReader.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/OpenSslContext.java
*
/opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/SslContext.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/JdkSslEngine.java
*
/opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/SslProvider.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
```

```

jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
*
/opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionStats.java
*
/opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/util/LazyX509Certificate.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
*
/opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1629578964_1680777697.7182336/0/netty-handler-4-1-91-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java

```

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java  
\*  
/opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSsl.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java  
\*  
/opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ipfilter/package-info.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java  
\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java

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\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/Ciphers.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java

\*

/opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/SslProtocols.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/BouncyCastle.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java

\*

/opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/SslContextOption.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java

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// Try the OpenJDK's proprietary implementation.

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\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/util/SelfSignedCertificate.java

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\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java

\*

/opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java

\* /opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java

\*

/opt/cola/permits/1629578964\_1680777697.7182336/0/netty-handler-4-1-91-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java

# 1.96 netty-codec 4.1.91.Final

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* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/DefaultHeaders.java
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 */
```

```
* Written by Robert Harder and released to the public domain, as explained at
* https://creativecommons.org/licenses/publicdomain
*/
/**
* Utility class for { @link ByteBuf } that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

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```
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/base64/Base64.java
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* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/compression/CompressionUtil.java
```

```
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java
```

```
*
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
```

```
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/string/LineSeparator.java
```

```
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/DatagramPacketEncoder.java
```

```
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/string/LineEncoder.java
```

```
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
```

jar/io/netty/handler/codec/DateFormatter.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-

jar/io/netty/handler/codec/DatagramPacketDecoder.java

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jar/io/netty/handler/codec/compression/Brotli.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-

jar/io/netty/handler/codec/compression/ZstdEncoder.java

\*

/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/Zstd.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java

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/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java

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\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/ValueConverter.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java

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* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Encoder.java
*
/opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
*
/opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
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jar/io/netty/handler/codec/DecoderResultProvider.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/LzfDecoder.java  
\*  
/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/FastLz.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/Crc32.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/LzfEncoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java  
\*  
/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/MessageAggregationException.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/json/package-info.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java  
\*  
/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
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- \* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
- \*
- /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
- \* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
- \* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
- \* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
- \* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/string/package-info.java
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- \* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/DecoderResult.java
- \*
- /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
- \* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
- \* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
- \* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
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- \* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
- \* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/package-info.java
- \*
- /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
- \* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
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\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java

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/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java

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\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/MessageAggregator.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java

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\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/Delimiters.java

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\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java

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\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/bytes/package-info.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/Snappy.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java

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/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-

jar/io/netty/handler/codec/CodecException.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java  
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/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java  
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/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java  
\*  
/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java

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/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java

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/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/base64/package-info.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/DecoderException.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java

\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/EncoderException.java

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jar/io/netty/handler/codec/compression/JdkZlibDecoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java  
\*  
/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-  
jar/io/netty/handler/codec/compression/Crc32c.java  
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\* A decoder that splits the received { @link ByteBuf}s dynamically by the

\* value of the length field in the message. It is particularly useful when you

\* decode a binary message which has an integer header field that represents the

\* length of the message body or the whole message.

\*

<p>

\* { @link LengthFieldBasedFrameDecoder } has many configuration parameters so

\* that it can decode any message with a length field, which is often seen in

\* proprietary client-server protocols. Here are some example that will give

\* you the basic idea on which option does what.

\*

\* <h3>2 bytes length field at offset 0, do not strip header</h3>

\*

\* The value of the length field in this example is <tt>12 (0x0C)</tt> which

\* represents the length of "HELLO, WORLD". By default, the decoder assumes

\* that the length field represents the number of the bytes that follows the

\* length field. Therefore, it can be decoded with the simplistic parameter

\* combination.

\* <pre>

\* <b>lengthFieldOffset</b> = <b>0</b>

\* <b>lengthFieldLength</b> = <b>2</b>

\* lengthAdjustment = 0

\* initialBytesToStrip = 0 (= do not strip header)

\*

\* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)

\* +-----+-----+      +-----+-----+

\* | Length | Actual Content

\* |---->| Length | Actual Content |

\* | 0x000C | "HELLO, WORLD" |    | 0x000C | "HELLO, WORLD" |

\* +-----+-----+      +-----+-----+

\* </pre>

\*

\* <h3>2 bytes length field at offset 0, strip header</h3>

\*

\* Because we can get the length of the content by calling

\* { @link ByteBuf#readableBytes() }, you might want to strip the length

\* field by specifying <tt>initialBytesToStrip</tt>. In this example, we

\* specified <tt>2</tt>, that is same with the length of the length field, to

\* strip the first two bytes.

```

* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)
* +-----+-----+      +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" |    | "HELLO, WORLD" |
* +-----+-----+      +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*   represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+      +-----+-----+
* | Length | Actual Content |---->| Length | Actual
* Content |
* | 0x000E | "HELLO, WORLD" |    | 0x000E | "HELLO, WORLD" |
* +-----+-----+      +-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0

```

```

*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```

\* **3 bytes length field at the beginning of 5 bytes header, do not strip header**

\* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `lengthAdjustment` so that the decoder counts the extra header into the frame length calculation.

```

* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0

```

```

* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO,
* WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```

\* **2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field**

\* This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `lengthFieldOffset` and the extra header affects the `lengthAdjustment`. We also specified a non-zero `initialBytesToStrip` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `0` for `initialBytesToSkip`.

```

* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
* LEN)

```

```

* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+

```

```

* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+      +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)           AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+      +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+      +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java  
\*  
/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/HeadersUtils.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java  
\* /opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java  
\*  
/opt/cola/permits/1629578833\_1681820741.6611998/0/netty-codec-4-1-91-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java  
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 * Harder's Public Domain
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 */
```

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```
* /opt/cola/permits/1629578833_1681820741.6611998/0/netty-codec-4-1-91-final-sources-
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```

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## 1.98 pax-utils 1.3.7-r1

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jar/javax/annotation/concurrent/ThreadSafe.java
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
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Last revised by Reagle \$Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) \$

## 1.101 servlet-api 3.0.1

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```
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* /opt/cola/permits/1656707133_1682600610.4687467/0/perfmark-api-0-17-0-sources-1-
jar/io/perfmark/PerfMark.java
* /opt/cola/permits/1656707133_1682600610.4687467/0/perfmark-api-0-17-0-sources-1-jar/io/perfmark/package-
```

info.java

\*

/opt/cola/permits/1656707133\_1682600610.4687467/0/perfmark-api-0-17-0-sources-1-jar/io/perfmark/Link.java

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```
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20230506/mk-ca-bundle.pl
```

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```
/* c_rehash.c - Create hash symlinks for certificates  
* C implementation based on the original Perl and shell versions  
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*/
```

Found in path(s):

```
* /opt/cola/permits/1667253608_1683577718.267003/0/ca-certificates-20230506-tar-bz2/ca-certificates-  
20230506/c_rehash.c
```

## 1.107 busybox 1.36.0-r9

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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*
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*
* usage: mkmntdirs [fstab]
*
*/
```

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```
* /opt/cola/permits/1675356458_1684887865.7744117/0/alpine-baselayout-master-zip/alpine-baselayout-master/src/mkmntdirs.c
```

# 1.110 musl-utils 1.2.4-r0

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iconv:

iconv.c

Implementation of SUSv4 XCU iconv utility

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```
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* C implementation based on the original Perl and shell versions
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Also add information on how to contact you by electronic and paper mail.

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```
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```

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<signature of Ty Coon>, 1 April 1989  
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\*  
\* @(#)queue.h 8.5 (Berkeley) 8/20/94  
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zip/aports-master-main-libc-dev/main/libc-dev/sys-tree.h

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jseward@bzip.org

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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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\* Create mount directories in fstab

\*  
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\*  
\* usage: mkmntdirs [fstab]  
\*  
\*/

Found in path(s):

\*/opt/cola/permits/1690300026\_1684996389.3603017/0/alpine-baselayout-master-zip/alpine-baselayout-master/src/mkmntdirs.c

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## 1.118 scanelf 1.3.7-r1

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```
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```
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```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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# 1.119 micronaut-inject 3.9.2

## 1.119.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/META-INF/native-image/io.micronaut/micronaut-inject/native-image.properties
```

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```
/*
```

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```
*
```

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```

```
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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ConstructorInjectionPoint.java
```

```
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/BeanContext.java
```

```
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/DefaultFieldInjectionPoint.java
```

```
*
```

```
/opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/DefaultConstructorInjectionPoint.java
```

```
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/DisposableBeanDefinition.java
```

```
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
```

jar/io/micronaut/context/ReflectionConstructorInjectionPoint.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/context/event/ApplicationEvent.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/context/processor/package-info.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/context/AbstractBeanContextConditional.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/annotation/AnnotationMetadataReference.java  
\*  
/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/beans/AbstractExecutableBeanMethod.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/context/annotation/Parameter.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/proxy/InterceptedBeanProxy.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/annotation/TypedAnnotationTransformer.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/context/exceptions/BeanCreationException.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/beans/visitor/MappedSuperClassIntrospectionMapper.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/context/BeanContextConfiguration.java  
\*  
/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/configuration/ConfigurationMetadata.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/util/VisitorContextUtils.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/context/AbstractExecutable.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/context/event/BeanCreatedEvent.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/InitializingBeanDefinition.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/annotation/NamedAnnotationTransformer.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/writer/ClassGenerationException.java  
\*  
/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/annotation/package-info.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/annotation/internal/PersistenceContextAnnotationMapper.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/BeanDefinitionReference.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/annotation/AbstractEnvironmentAnnotationMetadata.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/annotation/AnnotationMetadataException.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/banner/Banner.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/configuration/JsonConfigurationMetadataWriter.java

\*

/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/converters/ContextConverterRegistrar.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/DelegatingBeanDefinition.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/processing/JavaModelUtils.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/env/PropertySourceReader.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/env/yaml/YamlPropertySourceLoader.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/annotation/ConfigurationProperties.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/annotation/Replaces.java

\*

/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/CallableInjectionPoint.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/annotation/ConfigurationReader.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ValidatedBeanDefinition.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/env/SystemPropertiesPropertySource.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/scope/CustomScope.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/annotation/Factory.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/beans/visitor/package-info.java

\*

/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ast/PrimitiveElement.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/AbstractMessageSource.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/writer/AbstractClassWriterOutputVisitor.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/visitor/TypeElementVisitor.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/AbstractInitializableBeanDefinition.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-

```

jar/io/micronaut/context/annotation/Bean.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ExecutableMethod.java
*
/opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/event/BeanInitializedEventListener.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/condition/OperatingSystem.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/annotation/Requires.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/env/PropertySource.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ast/TypedElement.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ast/Element.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/condition/ConditionContext.java
*
/opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/beans/visitor/jakarta/persistence/JakartaEntityIntrospectedAnnotationMapper.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/annotation/Primary.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/condition/Condition.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/annotation/AnnotationMetadataHierarchy.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/annotation/Secondary.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/event/ApplicationEventPublisher.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ast/ClassElement.java
*
/opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/qualifiers/AnnotationStereotypeQualifier.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/package-info.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/qualifiers/package-info.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/MethodInjectionPoint.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/env/ActiveEnvironment.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/FieldInjectionPoint.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/annotation/Type.java

```

```

* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/writer/GeneratedFile.java
*
/opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/ApplicationContext.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/DefaultBeanResolutionContext.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/annotation/Prototype.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/qualifiers/TypeAnnotationQualifier.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/qualifiers/TypeArgumentQualifier.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/writer/AbstractClassFileWriter.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/exceptions/NonUniqueBeanException.java
*
/opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/BeanDefinition.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ast/ArrayableClassElement.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/annotation/Aliases.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/exceptions/package-info.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/processing/package-info.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ProxyBeanDefinition.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/annotation/AnnotatedElementValidator.java
*
/opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/annotation/EnvironmentAnnotationValue.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/writer/DefaultOriginatingElements.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/annotation/Context.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/BeanFactory.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/beans/visitor/EntityInspectedAnnotationMapper.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/writer/ConfigBuilderState.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/exceptions/NoSuchMessageException.java
*

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/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ast/ElementModifier.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/writer/ProxyingBeanDefinitionVisitor.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/StaticMessageSource.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/BeanRegistration.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/annotation/Executable.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/env/EnvironmentPropertySource.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/annotation/AnnotationRemapper.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/validation/BeanDefinitionValidator.java  
\*  
/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/exceptions/BeanContextException.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/event/BeanCreatedEventListener.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/DefaultCustomScopeRegistry.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/env/Environment.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/EnvironmentConfigurable.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/BeanIdentifier.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/configuration/package-info.java  
\*  
/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/condition/Failure.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/AbstractBeanDefinitionReference.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/exceptions/ConfigurationException.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/env/DefaultPropertyPlaceholderResolver.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/annotation/internal/FindBugsRemapper.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/qualifiers/Qualifiers.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/validation/package-info.java  
\*

/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/processor/AnnotationProcessor.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/annotation/EnvironmentConvertibleValuesMap.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/writer/FileBackedGeneratedFile.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/annotation/TypedAnnotationMapper.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/SingletonScope.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/BeanResolutionContext.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/writer/BeanDefinitionVisitor.java  
\*  
/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/env/PropertySourceLocator.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ast/PropertyElement.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/writer/DirectoryClassWriterOutputVisitor.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/visitor/package-info.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/DefaultMethodConstructorInjectionPoint.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/writer/StaticOriginatingElements.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/DefaultConditionContext.java  
\*  
/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ast/EnumConstantElement.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/beans/package-info.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/event/NoOpApplicationEventPublisher.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/qualifiers/CompositeQualifier.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/env/BootstrapPropertySourceLocator.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/annotation/internal/KotlinNullableMapper.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/qualifiers/AnnotationMetadataQualifier.java  
\*  
/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/DefaultApplicationBuilder.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-

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jar/io/micronaut/inject/writer/BeanDefinitionWriter.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/MessageSource.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ast/MemberElement.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/event/BeanInitializingEvent.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/AbstractBeanConfiguration.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/scope/package-info.java
*
/opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/env/MapPropertySource.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ArgumentInjectionPoint.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/exceptions/NoSuchBeanException.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/DefaultMessageContext.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/visitor/VisitorConfiguration.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/AbstractInitializableBeanDefinitionReference.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/BeanLocator.java
*
/opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ParametrizedBeanFactory.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/annotation/package-info.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/MethodReference.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ast/EnumElement.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/annotation/ConfigurationInject.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/provider/package-info.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/qualifiers/QualifierUtils.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/beans/visitor/BeanIntrospectionWriter.java
*
/opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ast/package-info.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/annotation/PackageRenameRemapper.java

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\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/event/StartupEvent.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/event/package-info.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/banner/ResourceBanner.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/ApplicationContextProvider.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/env/CommandLinePropertySource.java

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/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/exceptions/CircularDependencyException.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/annotation/DefaultScope.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/annotation/AnnotationMapper.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/exceptions/DependencyInjectionException.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/AnnotationProcessorListener.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ast/ElementQuery.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/LifeCycle.java

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/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/annotation/EnvironmentOptionalValuesMap.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/proxy/InterceptedBean.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/condition/TrueCondition.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/ApplicationContextLifeCycle.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/condition/package-info.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/exceptions/MessageUtils.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/annotation/Requirements.java

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/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/env/AbstractPropertySourceLoader.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/DefaultMethodInjectionPoint.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/annotation/EnvironmentAnnotationMetadata.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-

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jar/io/micronaut/context/annotation/EachProperty.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/annotation/Parallel.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/converters/package-info.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/annotation/DefaultImplementation.java
*
/opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ArgumentBeanType.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/annotation/internal/KotlinNotNullMapper.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/exceptions/DisabledBeanException.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/annotation/internal/TimedAnnotationMapper.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/beans/visitor/JsonCreatorAnnotationMapper.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/env/PropertyPlaceholderResolver.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/configuration/ConfigurationMetadataBuilder.java
*
/opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/env/PropertySourceLoader.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/MethodExecutionHandle.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/ReflectionMethodInjectionPoint.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/configuration/PropertyMetadata.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/annotation/AnnotationMetadataSupport.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/processor/BeanDefinitionProcessor.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/package-info.java
*
/opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/processor/ExecutableMethodProcessor.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/ExecutionHandleLocator.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/annotation/AliasFor.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ast/ConstructorElement.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/annotation/Provided.java

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\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/AbstractBeanResolutionContext.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/writer/BeanConfigurationWriter.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/event/BeanContextEvent.java

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/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/beans/visitor/jakarta/persistence/JakartaMappedSuperClassIntrospectionMapper.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/annotation/BootstrapContextCompatible.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/ProviderUtils.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/qualifiers/Qualified.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/annotation/PropertySource.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/env/package-info.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/annotation/EachBean.java

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/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/env/ComputePlatform.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/annotation/Configuration.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ExecutionHandle.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/BeanConfiguration.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/writer/ClassWriterOutputVisitor.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/AbstractBeanDefinition.java

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/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/RequiresCondition.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/env/yaml/CustomSafeConstructor.java

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\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/util/KotlinExecutableMethodUtils.java

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jar/io/micronaut/inject/visitor/VisitorContext.java
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* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
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\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/beans/visitor/IntrospectedTypeElementVisitor.java  
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\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ast/MethodElement.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/annotation/NamedAnnotationMapper.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/annotation/internal/package-info.java  
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\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/env/yaml/ConstructIsoTimestampString.java  
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- \* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/annotation/ContextConfigurer.java
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\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/ast/beans/BeanElement.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/qualifiers/PrimaryQualifier.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/context/annotation/Import.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/annotation/internal/JakartaPostConstructTransformer.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/annotation/internal/JakartaPreDestroyTransformer.java  
\*  
/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/provider/ProviderTypeInformationProvider.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/writer/AbstractBeanDefinitionBuilder.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/context/env/CachedEnvironment.java  
\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-  
jar/io/micronaut/inject/annotation/internal/JakartaRemapper.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ast/AnnotationElement.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/beans/visitor/EntityReflectiveAccessAnnotationMapper.java

\*

/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/provider/JakartaProviderBeanDefinition.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/visitor/BeanElementVisitorContext.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/qualifiers/RepeatableAnnotationQualifier.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/scope/CreatedBean.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/provider/AbstractProviderDefinition.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/InitializableBeanContext.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/AbstractConstructorInjectionPoint.java

\*

/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ast/beans/BeanConstructorElement.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/visitor/package-info.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/ApplicationContextConfigurer.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ast/DefaultElementQuery.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/exceptions/BeanDestructionException.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ExecutableMethodsDefinition.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ast/ReflectTypeElement.java

\*

/opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ast/beans/BeanElementBuilder.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/ast/beans/BeanFieldElement.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/qualifiers/ExactTypeArgumentNameQualifier.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/inject/writer/DispatchWriter.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/event/BeanPreDestroyEvent.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-jar/io/micronaut/context/visitor/BeanImportVisitor.java

\* /opt/cola/permits/1701214180\_1685496825.7066572/0/micronaut-inject-3-9-2-sources-

```
jar/io/micronaut/context/scope/AbstractConcurrentCustomScope.java
*
/opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ast/beans/ConfigurableElement.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/visitor/ContextConfigurerVisitor.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/ast/SimpleClassElement.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/annotation/NonBinding.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/AbstractExecutableMethodsDefinition.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/inject/beans/AbstractInitializableBeanIntrospection.java
* /opt/cola/permits/1701214180_1685496825.7066572/0/micronaut-inject-3-9-2-sources-
jar/io/micronaut/context/scope/BeanCreationContext.java
```

## 1.120 micronaut-aop 3.9.2

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```
* /opt/cola/permits/1701214190_1685496820.5211856/0/micronaut-aop-3-9-2-sources-
jar/io/micronaut/aop/internal/InterceptorRegistryBean.java
* /opt/cola/permits/1701214190_1685496820.5211856/0/micronaut-aop-3-9-2-sources-
jar/io/micronaut/aop/chain/AbstractInterceptorChain.java
* /opt/cola/permits/1701214190_1685496820.5211856/0/micronaut-aop-3-9-2-sources-
jar/io/micronaut/aop/internal/InterceptorBeanMapper.java
*
```

/opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/AroundConstruct.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/InterceptorBinding.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/InterceptorKind.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/InterceptorRegistry.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/ConstructorInvocationContext.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/chain/ConstructorInterceptorChain.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/ConstructorInterceptor.java  
\*  
/opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/kotlin/KotlinInterceptedMethod.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/InterceptorBean.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/InterceptorBindingDefinitions.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/chain/DefaultInterceptorRegistry.java  
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\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/chain/InterceptorChain.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/chain/AdapterIntroduction.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/internal/intercepted/KotlinInterceptedMethod.java

\*  
/opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/internal/intercepted/PublisherInterceptedMethod.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/exceptions/UnimplementedAdviceException.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/internal/intercepted/CompletionStageInterceptedMethod.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/util/DelegatingContextContinuation.kt  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/util/KotlinInterceptedMethodHelper.kt  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/util/CompletableFutureContinuation.kt  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/package-info.java  
\*  
/opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/MethodInterceptor.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/InterceptedProxy.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/Introduction.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/chain/MethodInterceptorChain.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/Introduced.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/exceptions/package-info.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/InterceptedMethod.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/writer/package-info.java  
\*  
/opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/InterceptPhase.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/HotSwappableInterceptedProxy.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/Around.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/Intercepted.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/internal/intercepted/SynchronousInterceptedMethod.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/chain/package-info.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-jar/io/micronaut/aop/writer/AopProxyWriter.java  
\* /opt/cola/permits/1701214190\_1685496820.5211856/0/micronaut-aop-3-9-2-sources-

```
jar/io/micronaut/aop/MethodInvocationContext.java
*
/opt/cola/permits/1701214190_1685496820.5211856/0/micronaut-aop-3-9-2-sources-
jar/io/micronaut/aop/internal/intercepted/InterceptedMethodUtil.java
* /opt/cola/permits/1701214190_1685496820.5211856/0/micronaut-aop-3-9-2-sources-
jar/io/micronaut/aop/Interceptor.java
* /opt/cola/permits/1701214190_1685496820.5211856/0/micronaut-aop-3-9-2-sources-
jar/io/micronaut/aop/InvocationContext.java
* /opt/cola/permits/1701214190_1685496820.5211856/0/micronaut-aop-3-9-2-sources-
jar/io/micronaut/aop/Adapter.java
```

# 1.121 micronaut-jackson-databind 3.9.2

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```
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/serialize/OptionalValuesSerializer.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/serialize/ConvertibleMultiValuesSerializer.java
*
/opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/databind/convert/JacksonConverterRegistrar.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/codecs/JsonMediaTypeCodec.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/serialize/package-info.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/serialize/ResourceSerializerModifier.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
```

```
jar/io/micronaut/jackson/codec/JsonStreamMediaTypeCodec.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/parser/JacksonProcessor.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/serialize/ResourceModule.java
*
/opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/serialize/ResourceDeserializerModifier.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/package-info.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/serialize/ConvertibleValuesSerializer.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/codec/JacksonFeatures.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/modules/BeanIntrospectionModule.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/serialize/JacksonObjectSerializer.java
*
/opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/annotation/package-info.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/annotation/JacksonFeatures.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/databind/convert/package-info.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/modules/package-info.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/codec/package-info.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/databind/convert/ObjectNodeConvertibleValues.java
* /opt/cola/permits/1701214188_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-
jar/io/micronaut/jackson/env/JsonPropertySourceLoader.java
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\* /opt/cola/permits/1701214188\_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-jar/io/micronaut/jackson/ResilientBeanDeserializerFactory.java

\* /opt/cola/permits/1701214188\_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-jar/io/micronaut/jackson/JacksonDatabindFeature.java

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\* /opt/cola/permits/1701214188\_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-jar/io/micronaut/jackson/serialize/JsonNodeSerializer.java

\* /opt/cola/permits/1701214188\_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-jar/io/micronaut/jackson/JacksonConfiguration.java

\*

/opt/cola/permits/1701214188\_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-jar/io/micronaut/jackson/codec/JacksonMediaTypeCodec.java

\* /opt/cola/permits/1701214188\_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-jar/io/micronaut/jackson/databind/JacksonDatabindMapper.java

\* /opt/cola/permits/1701214188\_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-jar/io/micronaut/jackson/ObjectMapperFactory.java

\* /opt/cola/permits/1701214188\_1685496845.0529134/0/micronaut-jackson-databind-3-9-2-sources-jar/io/micronaut/jackson/databind/DatabindPropertyBinderExceptionHandler.java

## 1.122 micronaut-jackson-core 3.9.2

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* /opt/cola/permits/1701214158_1685496827.3399737/0/micronaut-jackson-core-3-9-2-sources-jar/META-INF/native-image/io.micronaut/micronaut-jackson-core/native-image.properties
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* /opt/cola/permits/1701214158_1685496827.3399737/0/micronaut-jackson-core-3-9-2-sources-jar/io/micronaut/jackson/core/tree/JsonStreamTransfer.java
```

```
* /opt/cola/permits/1701214158_1685496827.3399737/0/micronaut-jackson-core-3-9-2-sources-jar/io/micronaut/jackson/core/tree/JsonNodeTraversingParser.java
```

```
* /opt/cola/permits/1701214158_1685496827.3399737/0/micronaut-jackson-core-3-9-2-sources-jar/io/micronaut/jackson/core/tree/JsonNodeTreeCodec.java
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/opt/cola/permits/1701214158_1685496827.3399737/0/micronaut-jackson-core-3-9-2-sources-jar/io/micronaut/jackson/core/tree/TreeGenerator.java
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\* /opt/cola/permits/1701214158\_1685496827.3399737/0/micronaut-jackson-core-3-9-2-sources-jar/io/micronaut/jackson/core/env/JsonPropertySourceLoader.java  
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/opt/cola/permits/1701214158\_1685496827.3399737/0/micronaut-jackson-core-3-9-2-sources-jar/io/micronaut/jackson/core/env/CloudFoundryVcapApplicationPropertySourceLoader.java  
\* /opt/cola/permits/1701214158\_1685496827.3399737/0/micronaut-jackson-core-3-9-2-sources-jar/io/micronaut/jackson/core/env/package-info.java  
\* /opt/cola/permits/1701214158\_1685496827.3399737/0/micronaut-jackson-core-3-9-2-sources-jar/io/micronaut/jackson/core/parser/JacksonCoreProcessor.java  
\* /opt/cola/permits/1701214158\_1685496827.3399737/0/micronaut-jackson-core-3-9-2-sources-jar/io/micronaut/jackson/core/env/CloudFoundryVcapServicesPropertySourceLoader.java

## 1.123 micronaut-http-client-core 3.9.2

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\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-

jar/io/micronaut/http/client/interceptor/configuration/package-info.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/multipart/MultipartBody.java  
\*  
/opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/bind/ClientRequestUriContext.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/exceptions/HttpClientErrorDecoder.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/DefaultLoadBalancerResolver.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/filter/ClientFilterResolutionContext.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/loadbalance/DiscoveryClientRoundRobinLoadBalancer.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/bind/AnnotatedClientArgumentRequestBinder.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/ReactiveClientResultTransformer.java  
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/opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/interceptor/configuration/DefaultClientVersioningConfiguration.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/loadbalance/ServiceInstanceListRoundRobinLoadBalancer.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/exceptions/ContentLengthExceededException.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/sse/SseClient.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/multipart/FilePart.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/ServiceHttpClientConfiguration.java  
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/opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/exceptions/EmptyResponseException.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/ServiceHttpClientCondition.java  
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jar/io/micronaut/http/client/loadbalance/package-info.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/filters/ClientServerRequestTracingPublisher.java  
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jar/io/micronaut/http/client/exceptions/HttpClientResponseException.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/bind/AnnotatedClientRequestBinder.java  
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jar/io/micronaut/http/client/package-info.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-

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jar/io/micronaut/http/client/exceptions/HttpClientException.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/loadbalance/LoadBalancerConverters.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/HttpClientRegistry.java  
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jar/io/micronaut/http/client/ServiceHttpClientFactory.java  
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/opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/bind/HttpClientBinderRegistry.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/DefaultHttpClientConfiguration.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/LoadBalancerResolver.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/bind/TypedClientArgumentRequestBinder.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/exceptions/NoHostException.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/filter/DefaultHttpClientFilterResolver.java  
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jar/io/micronaut/http/client/HttpClientConfiguration.java  
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jar/io/micronaut/http/client/loadbalance/DiscoveryClientLoadBalancerFactory.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/loadbalance/ServiceInstanceListLoadBalancerFactory.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/filters/package-info.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/interceptor/HttpClientIntroductionAdvice.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/sse/SseClientRegistry.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/ProxyHttpClientRegistry.java  
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/opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/loadbalance/AbstractRoundRobinLoadBalancer.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/StreamingHttpClient.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/multipart/BytePart.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/HttpClient.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-  
jar/io/micronaut/http/client/ProxyHttpClient.java

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\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/StreamingHttpClientRegistry.java  
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/opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/annotation/Client.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/multipart/Part.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/BlockingHttpClient.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/filters/ClientServerContextFilter.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/loadbalance/FixedLoadBalancer.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/multipart/InputStreamPart.java  
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/opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/LoadBalancer.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/multipart/StringPart.java  
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\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/interceptor/configuration/NamedClientVersioningConfiguration.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/exceptions/package-info.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/exceptions/ReadTimeoutException.java  
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/opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/interceptor/package-info.java  
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\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/bind/ClientArgumentRequestBinder.java  
\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/annotation/package-info.java  
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\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/bind/ClientRequestBinder.java

\*  
/opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/sse/package-info.java

\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/bind/binders/AttributeClientRequestBinder.java

\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/sse/SseClientFactoryResolver.java

\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/bind/binders/VersionClientRequestBinder.java

\* /opt/cola/permits/1701214182\_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-jar/io/micronaut/http/client/HttpClientFactory.java

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* /opt/cola/permits/1701214182_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-
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* /opt/cola/permits/1701214182_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-
jar/io/micronaut/http/client/ProxyHttpClientFactoryResolver.java
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/opt/cola/permits/1701214182_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-
jar/io/micronaut/http/client/bind/binders/HeaderClientRequestBinder.java
* /opt/cola/permits/1701214182_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-
jar/io/micronaut/http/client/sse/SseClientFactory.java
* /opt/cola/permits/1701214182_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-
jar/io/micronaut/http/client/ProxyHttpClientFactory.java
* /opt/cola/permits/1701214182_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-
jar/io/micronaut/http/client/StreamingHttpClientFactory.java
* /opt/cola/permits/1701214182_1685496846.8710787/0/micronaut-http-client-core-3-9-2-sources-
jar/io/micronaut/http/client/bind/binders/QueryValueClientArgumentRequestBinder.java
```

# 1.124 micronaut-http-client 3.9.2

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```
* /opt/cola/permits/1701214184_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-
jar/io/micronaut/http/client/netty/ConnectTTLHandler.java
* /opt/cola/permits/1701214184_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-
jar/io/micronaut/http/client/netty/converters/package-info.java
* /opt/cola/permits/1701214184_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-
jar/io/micronaut/http/client/netty/FullNettyClientHttpResponse.java
*
/opt/cola/permits/1701214184_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-
jar/io/micronaut/http/client/netty/NettyHttpClientFactory.java
```

\* /opt/cola/permits/1701214184\_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-jar/io/micronaut/http/client/netty/NettyStreamedHttpResponse.java  
\* /opt/cola/permits/1701214184\_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-jar/io/micronaut/http/client/netty/ssl/NettyClientSslBuilder.java  
\* /opt/cola/permits/1701214184\_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-jar/io/micronaut/http/client/netty/package-info.java  
\* /opt/cola/permits/1701214184\_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-jar/io/micronaut/http/client/netty/NettyClientHttpRequest.java  
\* /opt/cola/permits/1701214184\_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-jar/io/micronaut/http/client/netty/ssl/package-info.java  
\*

/opt/cola/permits/1701214184\_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-jar/io/micronaut/http/client/netty/websocket/package-info.java  
\* /opt/cola/permits/1701214184\_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-jar/io/micronaut/http/client/netty/IdlingConnectionHandler.java  
\* /opt/cola/permits/1701214184\_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-jar/io/micronaut/http/client/netty/NettyClientHttpRequestFactory.java  
\* /opt/cola/permits/1701214184\_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-jar/io/micronaut/http/client/netty/websocket/NettyWebSocketClientHandler.java  
\* /opt/cola/permits/1701214184\_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-jar/io/micronaut/http/client/netty/DefaultNettyHttpClientRegistry.java  
\* /opt/cola/permits/1701214184\_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-jar/io/micronaut/http/client/netty/IdleTimeoutHandler.java

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\* /opt/cola/permits/1701214184\_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-jar/io/micronaut/http/client/netty/MicronautFlux.java

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Found in path(s):

```
* /opt/cola/permits/1701214184_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-
jar/io/micronaut/http/client/netty/DefaultHttpClient.java
* /opt/cola/permits/1701214184_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-
jar/io/micronaut/http/client/netty/ForwardingSubscriber.java
* /opt/cola/permits/1701214184_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-
jar/io/micronaut/http/client/netty/SimpleChannelInboundHandlerInstrumented.java
*
* /opt/cola/permits/1701214184_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-
jar/io/micronaut/http/client/netty/NettyClientCustomizer.java
* /opt/cola/permits/1701214184_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-
jar/io/micronaut/http/client/netty/ConnectionManager.java
* /opt/cola/permits/1701214184_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-
jar/io/micronaut/http/client/netty/NettyPromiseSubscriber.java
* /opt/cola/permits/1701214184_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-
jar/io/micronaut/http/client/netty/CompositeNettyClientCustomizer.java
* /opt/cola/permits/1701214184_1685496839.8799798/0/micronaut-http-client-3-9-2-sources-
jar/io/micronaut/http/client/netty/NettyFuturePublisher.java
```

## 1.125 micronaut-buffer-netty 3.9.2

### 1.125.1 Available under license :

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- \* /opt/cola/permits/1701214104\_1685496849.7807288/0/micronaut-buffer-netty-3-9-2-sources-jar/io/micronaut/buffer/netty/NettyByteBuffer.java
- \* /opt/cola/permits/1701214104\_1685496849.7807288/0/micronaut-buffer-netty-3-9-2-sources-jar/io/micronaut/buffer/netty/NettyFeature.java
- \* /opt/cola/permits/1701214104\_1685496849.7807288/0/micronaut-buffer-netty-3-9-2-sources-jar/io/micronaut/buffer/netty/package-info.java
- \*

/opt/cola/permits/1701214104\_1685496849.7807288/0/micronaut-buffer-netty-3-9-2-sources-jar/io/micronaut/buffer/netty/NettyByteBufferFactory.java

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- \* /opt/cola/permits/1701214104\_1685496849.7807288/0/micronaut-buffer-netty-3-9-2-sources-jar/io/micronaut/buffer/netty/DefaultByteBufAllocatorConfiguration.java
- \* /opt/cola/permits/1701214104\_1685496849.7807288/0/micronaut-buffer-netty-3-9-2-sources-jar/io/micronaut/buffer/netty/ByteBufAllocatorConfiguration.java

## 1.126 micronaut-json-core 3.9.2

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\* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/codec/MapperMediaTypeCodec.java  
\* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/codec/JsonMediaTypeCodec.java  
\* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/codec/JsonStreamMediaTypeCodec.java

\*  
/opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/bind/JsonBeanPropertyBinder.java  
\* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/JsonObjectSerializer.java  
\* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/convert/JsonNodeConvertibleValues.java  
\* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/bind/package-info.java

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- \* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/tree/JsonContainer.java
- \* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/tree/JsonArray.java
- \* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/tree/JsonBoolean.java
- \*
- /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/convert/JsonConverterRegistrar.java
- \* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/tree/JsonScalar.java
- \* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/JsonStreamConfig.java
- \* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/JsonMapper.java
- \* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/JsonConfiguration.java
- \* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/JsonFeatures.java
- \* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/tree/JsonNull.java
- \* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/tree/JsonNumber.java
- \*
- /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/tree/JsonString.java
- \* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/tree/JsonNode.java
- \* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/tree/JsonObject.java
- \* /opt/cola/permits/1701214142\_1685496830.4668133/0/micronaut-json-core-3-9-2-sources-jar/io/micronaut/json/bind/JsonBeanPropertyBinderExceptionHandler.java

## 1.127 micronaut-context 3.9.2

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\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/context/scope/refresh/RefreshEventListener.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/converters/reactive/ReactiveTypeConverterRegistrar.java

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\*MapClaims.java

\* Note: rewritten to standard Java 8 DateTime by zemiak (c) 2016

\* Forked from: <https://github.com/frode-carlsen/cron>

\*/

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\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/cron/CronExpression.java

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\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/instrument/ReactiveInvocationInstrumenterFactory.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/instrument/package-info.java

\*

/opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/io/watch/WatchServiceFactory.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/io/watch/package-info.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/converters/reactive/package-info.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/io/watch/event/FileChangedEvent.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/context/scope/ThreadLocal.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/io/watch/event/WatchEventType.java

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/opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/instrument/InstrumentedExecutorService.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/instrument/ExecutorServiceInstrumenter.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/async/AsyncInterceptor.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/event/annotation/package-info.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/context/env/ConfigurationAdvice.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/annotation/Async.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/executor/DefaultThreadFactory.java

\*

/opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/server/package-info.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/exceptions/ApplicationStartupException.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/context/scope/Refreshable.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/ApplicationConfiguration.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/annotation/package-info.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/NextFireTime.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/io/watch/DefaultWatchThread.java

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/opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/executor/ExecutorSelector.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/exceptions/SchedulerConfigurationException.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/event/AbstractEmbeddedApplicationEvent.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/io/watch/FileWatchCondition.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/instrument/InstrumentedExecutor.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/async/package-info.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/DefaultTaskExceptionHandler.java

\*

/opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/context/scope/ScopedProxy.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/executor/UserExecutorConfiguration.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/executor/IOExecutorServiceConfig.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/instrument/Instrumentation.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/context/scope/refresh/RefreshScope.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/server/event/ServerStartupEvent.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/processor/package-info.java

\*

/opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/TaskScheduler.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/scheduling/executor/ExecutorType.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-jar/io/micronaut/runtime/event/package-info.java

\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-

jar/io/micronaut/scheduling/instrument/InvocationInstrumenterWrappedCallable.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/scheduling/instrument/NoopInstrumentation.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/runtime/event/ApplicationShutdownEvent.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/scheduling/executor/ExecutorConfiguration.java  
\*  
/opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/runtime/converters/time/package-info.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/runtime/event/annotation/EventListener.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/scheduling/instrument/InstrumentedScheduledExecutorService.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/scheduling/executor/package-info.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/runtime/package-info.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/scheduling/annotation/Scheduled.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/runtime/event/ApplicationStartupEvent.java  
\*  
/opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/scheduling/instrument/InvocationInstrumenterWrappedRunnable.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/runtime/EmbeddedApplication.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/runtime/context/scope/refresh/RefreshInterceptor.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/runtime/server/event/ServerShutdownEvent.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/scheduling/executor/DefaultExecutorSelector.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/scheduling/executor/NamedThreadFactory.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/runtime/converters/time/TimeConverterRegistrar.java  
\*  
/opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/runtime/context/env/package-info.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/scheduling/exceptions/TaskExecutionException.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/scheduling/annotation/Schedules.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/scheduling/package-info.java  
\* /opt/cola/permits/1701214126\_1685496832.1246424/0/micronaut-context-3-9-2-sources-  
jar/io/micronaut/scheduling/instrument/InvocationInstrumenter.java

```

* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/TaskExecutors.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/runtime/context/scope/refresh/package-info.java
*
/opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/runtime/context/scope/package-info.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/runtime/server/EmbeddedServer.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/runtime/context/env/ConfigurationIntroductionAdvice.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/runtime/server/event/package-info.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/annotation/ExecuteOn.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/runtime/context/scope/ThreadLocalCustomScope.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/exceptions/package-info.java
*
/opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/executor/ThreadSelection.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/TaskExceptionHandler.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/executor/ScheduledExecutorServiceConfig.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/instrument/InvocationInstrumenterFactory.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/instrument/MultipleInvocationInstrumenter.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/runtime/Micronaut.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/instrument/RunnableInstrumenter.java
*
/opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/ReschedulingTask.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/executor/ExecutorFactory.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/runtime/context/scope/refresh/RefreshEvent.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/runtime/exceptions/package-info.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/io/watch/event/package-info.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/processor/ScheduledMethodProcessor.java
*

```

```
/opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/io/watch/FileWatchConfiguration.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/runtime/context/CompositeMessageSource.java
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/scheduling/ScheduledExecutorTaskScheduler.java
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```

Found in path(s):

```
* /opt/cola/permits/1701214126_1685496832.1246424/0/micronaut-context-3-9-2-sources-
jar/io/micronaut/runtime/server/watch/event/FileWatchRestartListener.java
```

## 1.128 micronaut-validation 3.9.2

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```

Found in path(s):

```
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/META-INF/native-
image/io.micronaut.validation/micronaut-validation/native-image.properties
```

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*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/validator/constraints/EmailValidator.java
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```

Found in path(s):

```
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/executable/package-info.java
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/validator/DefaultValidatorFactory.java
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/async/AsyncTypeElementVisitor.java
*
```

/opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/ExecutableMethodValidator.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/extractors/SimpleValueReceiver.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/constraints/DefaultConstraintValidators.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/constraints/AbstractPatternValidator.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/DefaultClockProvider.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/resolver/CompositeTraversableResolver.java  
\*  
/opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/executable/ExecutableVisitor.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/async/package-info.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/Validated.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/constraints/PatternValidator.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/ReactiveValidator.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/DefaultConstraintDescriptor.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/constraints/ConstraintValidatorContext.java  
\*  
/opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/DefaultAnnotatedElementValidator.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/constraints/DecimalMaxValidator.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/constraints/DigitsValidator.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/DefaultValidator.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/constraints/SizeValidator.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/internal/InternalApiTypeElementVisitor.java  
\*  
/opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/package-info.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/constraints/DecimalMinValidator.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-jar/io/micronaut/validation/validator/constraints/ConstraintValidatorRegistry.java  
\* /opt/cola/permits/1701214165\_1685496836.029067/0/micronaut-validation-3-9-2-sources-

```
jar/io/micronaut/validation/validator/DefaultValidatorConfiguration.java
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/ValidatingInterceptor.java
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/exceptions/ConstraintExceptionHandler.java
*
/opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/validator/messages/DefaultValidationMessages.java
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/validator/Validator.java
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/validator/constraints/DomainNameUtil.java
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/validator/InspectedBeanDescriptor.java
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/validator/extractors/UnwrapByDefaultValueExtractor.java
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/validator/constraints/ConstraintValidator.java
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/exceptions/package-info.java
*
/opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/validator/extractors/ValueExtractorRegistry.java
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/internal/package-info.java
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/validator/ValidatorConfiguration.java
* /opt/cola/permits/1701214165_1685496836.029067/0/micronaut-validation-3-9-2-sources-
jar/io/micronaut/validation/validator/extractors/DefaultValueExtractors.java
```

## 1.129 micronaut-core 3.9.2

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# 1.130 micronaut-http 3.9.2

## 1.130.1 Available under license :

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 *
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1701214100_1685496818.7779105/0/micronaut-http-3-9-2-sources-
jar/io/micronaut/http/ssl/SslConfiguration.java
* /opt/cola/permits/1701214100_1685496818.7779105/0/micronaut-http-3-9-2-sources-
jar/io/micronaut/http/util/HttpHeadersUtil.java
* /opt/cola/permits/1701214100_1685496818.7779105/0/micronaut-http-3-9-2-sources-
jar/io/micronaut/http/hateoas/GenericResource.java
*
```

```
/opt/cola/permits/1701214100_1685496818.7779105/0/micronaut-http-3-9-2-sources-
jar/io/micronaut/http/ssl/ServerSslConfiguration.java
* /opt/cola/permits/1701214100_1685496818.7779105/0/micronaut-http-3-9-2-sources-
jar/io/micronaut/http/ssl/ClientSslConfiguration.java
* /opt/cola/permits/1701214100_1685496818.7779105/0/micronaut-http-3-9-2-sources-
jar/io/micronaut/http/MediaTypeConvertersRegistrar.java
* /opt/cola/permits/1701214100_1685496818.7779105/0/micronaut-http-3-9-2-sources-
jar/io/micronaut/http/bind/binders/PartAnnotationBinder.java
```

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```
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```

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\* limitations under the License.  
\*/

Found in path(s):

\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/CaseInsensitiveMutableHttpHeaders.java

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\*/

Found in path(s):

\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/uri/QueryStringDecoder.java

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# This file maps Internet media types to unique file extension(s).  
# Although created for httpd, this file is used by many software systems  
# and has been placed in the public domain for unlimited redistribution.  
#  
# The table below contains both registered and (common) unregistered types.  
# A type that has no unique extension can be ignored -- they are listed  
# here to guide configurations toward known types and to make it easier to  
# identify "new" types. File extensions are also commonly used to indicate  
# content languages and encodings, so choose them carefully.  
#

```

# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1810121&view=co
#
# MIME type (lowercased) Extensions
# =====
# application/1d-interleaved-parityfec
#
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-inset ez
# application/applefile
application/applixware aw
# application/atf
# application/atfx
application/atom+xml atom
application/atomcat+xml atomcat
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml atomsvc
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json
# application/calendar+xml
# application/call-completion
#
# application/cals-1840
# application/cbor
# application/ccmp+xml
application/ccxml+xml ccxml
# application/cdfx+xml

```

application/cdmi-capability cdmia  
application/cdmi-container cdmic  
application/cdmi-domain cdmid  
application/cdmi-object cdmio  
application/cdmi-queue cdmiq  
# application/cdni  
# application/cea  
# application/cea-2018+xml  
# application/cellml+xml  
# application/cfw  
# application/cms  
# application/cnrx+xml  
# application/coap-group+json  
# application/commonground  
# application/conference-info+xml  
# application/cpl+xml  
# application/csrattrs  
# application/csta+xml  
# application/cstadata+xml  
# application/csvm+json  
application/cu-seeme cu  
# application/cybercash  
# application/dash+xml  
# application/dashdelta  
application/davmount+xml davmount  
# application/dca-rft  
# application/dcd  
# application/dec-dx  
# application/dialog-info+xml  
# application/dicom  
# application/dii  
# application/dit  
# application/dns  
application/docbook+xml dbk  
# application/dskpp+xml  
application/dssc+der dssc  
application/dssc+xml xdssc  
#  
application/dvcs  
application/ecascript ecma  
# application/edi-consent  
# application/edi-x12  
# application/edifact  
# application/efi  
# application/emergencycalldata.comment+xml  
# application/emergencycalldata.deviceinfo+xml  
# application/emergencycalldata.providerinfo+xml  
# application/emergencycalldata.serviceinfo+xml

```
# application/emergencycalldata.subscriberinfo+xml
application/emma+xml emma
# application/emotionml+xml
# application/encaprtsp
# application/epp+xml
application/epub+zip epub
# application/eshop
# application/example
application/exi exi
# application/fastinfoset
# application/fastsoap
# application/fdt+xml
# application/fits
application/font-tdpfr pfr
# application/framework-attributes+xml
# application/geo+json
application/gml+xml gml
application/gpx+xml gpx
application/gxf gxf
# application/gzip
# application/h224
# application/held+xml
# application/http
application/hyperstudio stk
#
application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
application/inkml+xml ink inkml
# application/iotp
application/ipfix ipfix
# application/ipp
# application/isup
# application/its+xml
application/java-archive jar
application/java-serialized-object ser
application/java-vm class
application/javascript js
application/javascript mjs
# application/jose
# application/jose+json
```

```
# application/jrd+json
application/json json
# application/json-patch+json
# application/json-seq
application/jsonml+json jsonml
# application/jwk+json
# application/jwk-set+json
# application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# application/ld+json
# application/lgr+xml
# application/link-format
# application/load-control+xml
application/lost+xml lostxml
#
  application/lostsync+xml
# application/lxf
application/mac-binhex40 hqx
application/mac-compactpro cpt
# application/macwriteii
application/mads+xml mads
application/marc mrc
application/marcxml+xml mrcx
application/mathematica ma nb mb
application/mathml+xml mathml
# application/mathml-content+xml
# application/mathml-presentation+xml
# application/mbms-associated-procedure-description+xml
# application/mbms-deregister+xml
# application/mbms-envelope+xml
# application/mbms-msk+xml
# application/mbms-msk-response+xml
# application/mbms-protection-description+xml
# application/mbms-reception-report+xml
# application/mbms-register+xml
# application/mbms-register-response+xml
# application/mbms-schedule+xml
# application/mbms-user-service-description+xml
application/mbox mbox
# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xml mscml
# application/merge-patch+json
application/metalink+xml metalink
application/metalink4+xml meta4
application/mets+xml mets
#
```

application/mf4  
# application/mikey  
application/mods+xml mods  
# application/moss-keys  
# application/moss-signature  
# application/mosskey-data  
# application/mosskey-request  
application/mp21 m21 mp21  
application/mp4 mp4s  
# application/mpeg4-generic  
# application/mpeg4-iod  
# application/mpeg4-iod-xmt  
# application/mrb-consumer+xml  
# application/mrb-publish+xml  
# application/msc-ivr+xml  
# application/msc-mixer+xml  
application/msword doc dot  
application/mxf mxf  
# application/nasdata  
# application/news-checkgroups  
# application/news-groupinfo  
# application/news-transmission  
# application/nlsml+xml  
# application/nss  
# application/ocsp-request  
# application/ocsp-response  
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy  
application/oda oda  
# application/odx  
application/obeps-package+xml opf  
application/ogg ogx  
application/omdoc+xml omdoc  
application/onenote onetoc  
onetoc2 onetmp onepkg  
application/oxps oxps  
# application/p2p-overlay+xml  
# application/parityfec  
application/patch-ops-error+xml xer  
application/pdf pdf  
# application/pdx  
application/pgp-encrypted pgp  
# application/pgp-keys  
application/pgp-signature asc sig  
application/pics-rules prf  
# application/pidf+xml  
# application/pidf-diff+xml  
application/pkcs10 p10  
# application/pkcs12

application/pkcs7-mime p7m p7c  
application/pkcs7-signature p7s  
application/pkcs8 p8  
application/pkix-attr-cert ac  
application/pkix-cert cer  
application/pkix-crl crl  
application/pkix-pkipath pkipath  
application/pkixcmp pki  
application/pls+xml pls  
# application/poc-settings+xml  
application/postscript ai eps ps  
# application/ppsp-tracker+json  
# application/problem+json  
# application/problem+xml  
# application/provenance+xml  
# application/prs.alvestrand.titrax-sheet  
application/prs.cww cww  
# application/prs.hpub+zip  
# application/prs.nprend  
# application/prs.plucker  
#  
application/prs.rdf+xml-crypt  
# application/prs.xsf+xml  
application/pskc+xml pskcxml  
# application/qsig  
# application/raptorfec  
# application/rdap+json  
application/rdf+xml rdf  
application/reginfo+xml rif  
application/relax-ng-compact-syntax rnc  
# application/remote-printing  
# application/reputon+json  
application/resource-lists+xml rl  
application/resource-lists-diff+xml rld  
# application/rfc+xml  
# application/riscos  
# application/rlmi+xml  
application/rls-services+xml rs  
application/rpki-ghostbusters gbr  
application/rpki-manifest mft  
application/rpki-roa roa  
# application/rpki-updown  
application/rsd+xml rsd  
application/rss+xml rss  
application/rtf rtf  
# application/rtploopback  
# application/rtx  
# application/samlassertion+xml

```
# application/samlmetadata+xml
application/sbml+xml sbml
# application/scaip+xml
# application/scim+json
application/scvp-cv-request scq
application/scvp-cv-response scs
application/scvp-vp-request spq
application/scvp-vp-response spp
application/sdp sdp
#
  application/sep+xml
# application/sep-exi
# application/session-info
# application/set-payment
application/set-payment-initiation setpay
# application/set-registration
application/set-registration-initiation setreg
# application/sgml
# application/sgml-open-catalog
application/shf+xml shf
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml smi smil
# application/smpte336m
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query rq
application/sparql-results+xml srx
# application/spirits-event+xml
# application/sql
application/srgs gram
application/srgs+xml grxml
application/sru+xml sru
application/ssdl+xml ssdl
application/ssml+xml ssml
# application/tamp-apex-update
# application/tamp-apex-update-confirm
# application/tamp-community-update
# application/tamp-community-update-confirm
#
  application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
```

# application/tamp-status-response  
# application/tamp-update  
# application/tamp-update-confirm  
application/tei+xml tei teicorpus  
application/thraud+xml tfi  
# application/timestamp-query  
# application/timestamp-reply  
application/timestamped-data tsd  
# application/ttml+xml  
# application/tve-trigger  
# application/ulpfec  
# application/urc-grpsheet+xml  
# application/urc-ressheet+xml  
# application/urc-targetdesc+xml  
# application/urc-uisocketdesc+xml  
# application/vcard+json  
# application/vcard+xml  
# application/vemmi  
# application/vividence.scriptfile  
# application/vnd.3gpp-prose+xml  
# application/vnd.3gpp-prose-pc3ch+xml  
# application/vnd.3gpp.access-transfer-events+xml  
# application/vnd.3gpp.bsf+xml  
# application/vnd.3gpp.mid-call+xml  
application/vnd.3gpp.pic-bw-large plb  
application/vnd.3gpp.pic-bw-small psb  
application/vnd.3gpp.pic-bw-var pvb  
#  
application/vnd.3gpp.sms  
# application/vnd.3gpp.sms+xml  
# application/vnd.3gpp.srvcc-ext+xml  
# application/vnd.3gpp.srvcc-info+xml  
# application/vnd.3gpp.state-and-event-info+xml  
# application/vnd.3gpp.ussd+xml  
# application/vnd.3gpp2.bcmcsinfo+xml  
# application/vnd.3gpp2.sms  
application/vnd.3gpp2.tcap tcap  
# application/vnd.3lightssoftware.imagescal  
application/vnd.3m.post-it-notes pwn  
application/vnd.accpac.simply.aso aso  
application/vnd.accpac.simply.imp imp  
application/vnd.acucobol acu  
application/vnd.acucorp atc acutc  
application/vnd.adobe.air-application-installer-package+zip air  
# application/vnd.adobe.flash.movie  
application/vnd.adobe.formscentral.fcdt fcdt  
application/vnd.adobe.fxp fxp fxpl  
# application/vnd.adobe.partial-upload

application/vnd.adobe.xdp+xml xdp  
application/vnd.adobe.xfdf xfdf  
# application/vnd.aether.imp  
# application/vnd.ah-barcode  
application/vnd.ahead.space ahead  
application/vnd.airzip.filesecure.azf azf  
application/vnd.airzip.filesecure.azs azs  
application/vnd.amazon.ebook azw  
#  
application/vnd.amazon.mobi8-ebook  
application/vnd.americandynamics.acc acc  
application/vnd.amiga.ami ami  
# application/vnd.amundsen.maze+xml  
application/vnd.android.package-archive apk  
# application/vnd.anki  
application/vnd.anser-web-certificate-issue-initiation cii  
application/vnd.anser-web-funds-transfer-initiation fti  
application/vnd.antix.game-component atx  
# application/vnd.apache.thrift.binary  
# application/vnd.apache.thrift.compact  
# application/vnd.apache.thrift.json  
# application/vnd.api+json  
application/vnd.apple.installer+xml mpkg  
application/vnd.apple.mpegurl m3u8  
# application/vnd.arastra.swi  
application/vnd.aristanetworks.swi swi  
# application/vnd.artsquare  
application/vnd.astraea-software.iota iota  
application/vnd.audiograph aep  
# application/vnd.autopackage  
# application/vnd.avistar+xml  
# application/vnd.balsamiq.bmml+xml  
# application/vnd.balsamiq.bmpr  
# application/vnd.bekitzur-stech+json  
# application/vnd.biopax.rdf+xml  
application/vnd.blueice.multipass mpm  
#  
application/vnd.bluetooth.ep.oob  
# application/vnd.bluetooth.le.oob  
application/vnd.bmi bmi  
application/vnd.businessobjects rep  
# application/vnd.cab-jscript  
# application/vnd.canon-cpdl  
# application/vnd.canon-lips  
# application/vnd.cendio.thinlinc.clientconf  
# application/vnd.century-systems.tcp\_stream  
application/vnd.chemdraw+xml cdxml  
# application/vnd.chess-pgn

application/vnd.chipnuts.karaoke-mmd mmd  
application/vnd.cinderella cdy  
# application/vnd.cirpack.isdn-ext  
# application/vnd.citationstyles.style+xml  
application/vnd.claymore cla  
application/vnd.cloanto.rp9 rp9  
application/vnd.clonk.c4group c4g c4d c4f c4p c4u  
application/vnd.cluetrust.cartomobile-config c11amc  
application/vnd.cluetrust.cartomobile-config-pkg c11amz  
# application/vnd.coffeescript  
# application/vnd.collection+json  
# application/vnd.collection.doc+json  
# application/vnd.collection.next+json  
# application/vnd.comicbook+zip  
#  
application/vnd.commerce-battelle  
application/vnd.commonspace csp  
application/vnd.contact.cmsg cdbcmg  
# application/vnd.coreos.ignition+json  
application/vnd.cosmocaller cmc  
application/vnd.crick.clicker clkx  
application/vnd.crick.clicker.keyboard clkk  
application/vnd.crick.clicker.palette clkp  
application/vnd.crick.clicker.template clkt  
application/vnd.crick.clicker.wordbank clkw  
application/vnd.criticaltools.wbs+xml wbs  
application/vnd.ctc-posml pml  
# application/vnd.ctct.ws+xml  
# application/vnd.cups-pdf  
# application/vnd.cups-postscript  
application/vnd.cups-ppd ppd  
# application/vnd.cups-raster  
# application/vnd.cups-raw  
# application/vnd.curl  
application/vnd.curl.car car  
application/vnd.curl.pcurl pcurl  
# application/vnd.cyan.dean.root+xml  
# application/vnd.cybank  
application/vnd.dart dart  
application/vnd.data-vision.rdz rdz  
# application/vnd.debian.binary-package  
application/vnd.dece.data uvf uvvf uvd uvvd  
application/vnd.dece.ttml+xml uvt uvvt  
application/vnd.dece.unspecified uvx  
uvvx  
application/vnd.dece.zip uvz uvvz  
application/vnd.denovo.fcselayout-link fe\_launch  
# application/vnd.desmume.movie

```
# application/vnd.dir-bi.plate-dl-nosuffix
# application/vnd.dm.delegation+xml
application/vnd.dna dna
# application/vnd.document+json
application/vnd.dolby.mlp mlp
# application/vnd.dolby.mobile.1
# application/vnd.dolby.mobile.2
# application/vnd.doremir.scorecloud-binary-document
application/vnd.dpgraph dpg
application/vnd.dreamfactory dfac
# application/vnd.drive+json
application/vnd.ds-keypoint kpxx
# application/vnd.dtg.local
# application/vnd.dtg.local.flash
# application/vnd.dtg.local.html
application/vnd.dvb.ait ait
# application/vnd.dvb.dvbj
# application/vnd.dvb.esgcontainer
# application/vnd.dvb.ipdcdfnotifaccess
# application/vnd.dvb.ipdcesgaccess
# application/vnd.dvb.ipdcesgaccess2
# application/vnd.dvb.ipdcesgpdd
# application/vnd.dvb.ipdcroaming
# application/vnd.dvb.iptv.alfec-base
# application/vnd.dvb.iptv.alfec-enhancement
#
application/vnd.dvb.notif-aggregate-root+xml
# application/vnd.dvb.notif-container+xml
# application/vnd.dvb.notif-generic+xml
# application/vnd.dvb.notif-ia-msglist+xml
# application/vnd.dvb.notif-ia-registration-request+xml
# application/vnd.dvb.notif-ia-registration-response+xml
# application/vnd.dvb.notif-init+xml
# application/vnd.dvb.pfr
application/vnd.dvb.service svc
# application/vnd.dxr
application/vnd.dynageo geo
# application/vnd.dzr
# application/vnd.easykaraoke.cdgdownload
# application/vnd.ecdis-update
application/vnd.ecowin.chart mag
# application/vnd.ecowin.filerequest
# application/vnd.ecowin.fileupdate
# application/vnd.ecowin.series
# application/vnd.ecowin.seriesrequest
# application/vnd.ecowin.seriesupdate
# application/vnd.emclient.accessrequest+xml
application/vnd.enliven nml
```

```
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# application/vnd.eprints.data+xml
application/vnd.epson.esf esf
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application/vnd.epson.quickanime qam
application/vnd.epson.salt slt
application/vnd.epson.ssf ssf
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# application/vnd.etsi.cug+xml
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# application/vnd.etsi.mheg5
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# application/vnd.etsi.sci+xml
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# application/vnd.etsi.tsl+xml
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# application/vnd.eudora.data
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application/vnd.ezpix-package ez3
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application/vnd.fdf fdf
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# application/vnd.ffmpeg
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# application/vnd.firemonkeys.cloudcell
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application/vnd.fluxtime.clip ftc
# application/vnd.font-fontforge-sfd
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application/vnd.geospace g3w  
# application/vnd.gerber  
# application/vnd.globalplatform.card-content-mgt  
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application/vnd.hp-hpid hpid  
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# application/vnd.infotech.project  
# application/vnd.infotech.project+xml  
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# application/vnd.intertrust.digibox

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# application/vnd.iptc.g2.conceptitem+xml
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  application/vnd.iptc.g2.knowledgeitem+xml
# application/vnd.iptc.g2.newsitem+xml
# application/vnd.iptc.g2.newsmesssage+xml
# application/vnd.iptc.g2.packageitem+xml
# application/vnd.iptc.g2.planningitem+xml
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# application/vnd.ms-asf
application/vnd.ms-cab-compressed cab
# application/vnd.ms-color.iccprofile
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application/vnd.ms-htmlhelp chm
application/vnd.ms-ims ims
application/vnd.ms-lrm lrm
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application/vnd.ms-pki.stl stl
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# application/vnd.ms-wmdrm.lic-resp
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application/vnd.ms-wpl wpl
application/vnd.ms-xpsdocument xps
# application/vnd.msa-disk-image
```

application/vnd.mseq mseq  
# application/vnd.msign  
# application/vnd.multiad.creator  
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# application/vnd.poc.group-advertisement+xml  
application/vnd.pocketlearn plf  
application/vnd.powerbuilder6 pbd  
# application/vnd.powerbuilder6-s  
# application/vnd.powerbuilder7  
# application/vnd.powerbuilder7-s  
# application/vnd.powerbuilder75  
# application/vnd.powerbuilder75-s  
# application/vnd.preminet  
application/vnd.previewsystems.box box  
application/vnd.proteus.magazine mgz  
application/vnd.publishare-delta-tree qps  
application/vnd.pvi.ptid1 ptid  
# application/vnd.pwg-multiplexed  
# application/vnd.pwg-xml-print+xml

```
# application/vnd.qualcomm.brew-app-res
# application/vnd.quarantainenet
application/vnd.quark.quarkxpress qxd
qxt qwd qwt qxl qxb
# application/vnd.quobject-quoxdocument
# application/vnd.radisys.moml+xml
# application/vnd.radisys.msml+xml
# application/vnd.radisys.msml-audit+xml
# application/vnd.radisys.msml-audit-conf+xml
# application/vnd.radisys.msml-audit-conn+xml
# application/vnd.radisys.msml-audit-dialog+xml
# application/vnd.radisys.msml-audit-stream+xml
# application/vnd.radisys.msml-conf+xml
# application/vnd.radisys.msml-dialog+xml
# application/vnd.radisys.msml-dialog-base+xml
# application/vnd.radisys.msml-dialog-fax-detect+xml
# application/vnd.radisys.msml-dialog-fax-sendrecv+xml
# application/vnd.radisys.msml-dialog-group+xml
# application/vnd.radisys.msml-dialog-speech+xml
# application/vnd.radisys.msml-dialog-transform+xml
# application/vnd.rainstor.data
# application/vnd.rapid
# application/vnd.rar
application/vnd.realvnc.bed bed
application/vnd.recordare.musicxml mxl
application/vnd.recordare.musicxml+xml musicxml
# application/vnd.renlearn.rlprint
application/vnd.rig.cryptonote cryptonote
application/vnd.rim.cod cod
application/vnd.rn-realmedia rm
application/vnd.rn-realmedia-vbr rmvb
application/vnd.route66.link66+xml link66
#
application/vnd.rs-274x
# application/vnd.ruckus.download
# application/vnd.s3sms
application/vnd.sailingtracker.track st
# application/vnd.sbm.cid
# application/vnd.sbm.mid2
# application/vnd.scribus
# application/vnd.sealed.3df
# application/vnd.sealed.csf
# application/vnd.sealed.doc
# application/vnd.sealed.eml
# application/vnd.sealed.mht
# application/vnd.sealed.net
# application/vnd.sealed.ppt
# application/vnd.sealed.tiff
```

# application/vnd.sealed.xls  
# application/vnd.sealedmedia.softseal.html  
# application/vnd.sealedmedia.softseal.pdf  
application/vnd.seemail see  
application/vnd.sema sema  
application/vnd.semd semd  
application/vnd.semf semf  
application/vnd.shana.informed.formdata ifm  
application/vnd.shana.informed.formtemplate itp  
application/vnd.shana.informed.interchange iif  
application/vnd.shana.informed.package ipk  
application/vnd.simtech-mindmapper twd  
twds  
# application/vnd.siren+json  
application/vnd.smaf mmf  
# application/vnd.smart.notebook  
application/vnd.smart.teacher teacher  
# application/vnd.software602.filler.form+xml  
# application/vnd.software602.filler.form+xml-zip  
application/vnd.solent.sdkm+xml sdkm sdkd  
application/vnd.spotfire.dxp dxp  
application/vnd.spotfire.sfs sfs  
# application/vnd.sss-cod  
# application/vnd.sss-dtf  
# application/vnd.sss-ntf  
application/vnd.stardivision.calc sdc  
application/vnd.stardivision.draw sda  
application/vnd.stardivision.impress sdd  
application/vnd.stardivision.math smf  
application/vnd.stardivision.writer sdw vor  
application/vnd.stardivision.writer-global sgl  
application/vnd.stepmania.package smzip  
application/vnd.stepmania.stepchart sm  
# application/vnd.street-stream  
# application/vnd.sun.wadl+xml  
application/vnd.sun.xml.calc sxc  
application/vnd.sun.xml.calc.template stc  
application/vnd.sun.xml.draw sxd  
application/vnd.sun.xml.draw.template std  
application/vnd.sun.xml.impress sxi  
application/vnd.sun.xml.impress.template sti  
application/vnd.sun.xml.math sxm  
application/vnd.sun.xml.writer sxw  
application/vnd.sun.xml.writer.global sxcg  
application/vnd.sun.xml.writer.template stw  
application/vnd.sus-calendar sus  
susp  
application/vnd.svd svd

```
# application/vnd.swiftview-ics
application/vnd.symbian.install sis sisx
application/vnd.syncml+xml xsm
application/vnd.syncml.dm+wbxml bdm
application/vnd.syncml.dm+xml xdm
# application/vnd.syncml.dm.notification
# application/vnd.syncml.dmddf+wbxml
# application/vnd.syncml.dmddf+xml
# application/vnd.syncml.dmtnds+wbxml
# application/vnd.syncml.dmtnds+xml
# application/vnd.syncml.ds.notification
application/vnd.tao.intent-module-archive tao
application/vnd.tcpdump.pcap pcap cap dmp
# application/vnd.tmd.mediaflex.api+xml
# application/vnd.tml
application/vnd.tmobile-livetv tmo
application/vnd.trid.tpt tpt
application/vnd.triscape.mxs mxs
application/vnd.trueapp tra
#
  application/vnd.truedoc
# application/vnd.ubisoft.webplayer
application/vnd.ufdl ufd ufdl
application/vnd.uiq.theme utz
application/vnd.umajin umj
application/vnd.unity unityweb
application/vnd.uoml+xml uoml
# application/vnd.uplanet.alert
# application/vnd.uplanet.alert-wbxml
# application/vnd.uplanet.bearer-choice
# application/vnd.uplanet.bearer-choice-wbxml
# application/vnd.uplanet.cacheop
# application/vnd.uplanet.cacheop-wbxml
# application/vnd.uplanet.channel
# application/vnd.uplanet.channel-wbxml
# application/vnd.uplanet.list
# application/vnd.uplanet.list-wbxml
# application/vnd.uplanet.listcmd
# application/vnd.uplanet.listcmd-wbxml
# application/vnd.uplanet.signal
# application/vnd.uri-map
# application/vnd.valve.source.material
application/vnd.vcx vcx
# application/vnd.vd-study
# application/vnd.vectorworks
# application/vnd.vel+json
# application/vnd.verimatrix.vcas
# application/vnd.vidsoft.vidconference
```

application/vnd.visio vsd  
vst vss vsw  
application/vnd.visionary vis  
# application/vnd.vividence.scriptfile  
application/vnd.vsf vsf  
# application/vnd.wap.sic  
# application/vnd.wap.slc  
application/vnd.wap.wbxml wbxml  
application/vnd.wap.wmlc wmlc  
application/vnd.wap.wmlscriptc wmlsc  
application/vnd.webturbo wtb  
# application/vnd.wfa.p2p  
# application/vnd.wfa.wsc  
# application/vnd.windows.devicepairing  
# application/vnd.wmc  
# application/vnd.wmf.bootstrap  
# application/vnd.wolfram.mathematica  
# application/vnd.wolfram.mathematica.package  
application/vnd.wolfram.player nbp  
application/vnd.wordperfect wpd  
application/vnd.wqd wqd  
# application/vnd.wrq-hp3000-labelled  
application/vnd.wt.stf stf  
# application/vnd.wv.csp+wbxml  
# application/vnd.wv.csp+xml  
# application/vnd.wv.ssp+xml  
# application/vnd.xacml+json  
application/vnd.xara xar  
application/vnd.xfdl xfdl  
# application/vnd.xfdl.webform  
# application/vnd.xmi+xml  
# application/vnd.xmpie.cpkg  
#  
application/vnd.xmpie.dpkg  
# application/vnd.xmpie.plan  
# application/vnd.xmpie.ppkg  
# application/vnd.xmpie.xlim  
application/vnd.yamaha.hv-dic hvd  
application/vnd.yamaha.hv-script hvs  
application/vnd.yamaha.hv-voice hvp  
application/vnd.yamaha.openscoreformat osf  
application/vnd.yamaha.openscoreformat.osfpvg+xml osfpvg  
# application/vnd.yamaha.remote-setup  
application/vnd.yamaha.smaf-audio saf  
application/vnd.yamaha.smaf-phrase spf  
# application/vnd.yamaha.through-ngn  
# application/vnd.yamaha.tunnel-udpencap  
# application/vnd.yaoweme

application/vnd.yellowriver-custom-menu cmp  
application/vnd.zul zir zirz  
application/vnd.zzazz.deck+xml zaz  
application/voicexml+xml vxml  
# application/vq-rtcpvr  
# application/watcherinfo+xml  
# application/whoispp-query  
# application/whoispp-response  
application/widget wgt  
application/winhelp hlp  
# application/wita  
# application/wordperfect5.1  
application/wsdl+xml wsdl  
application/wspolicy+xml wspolicy  
application/x-7z-compressed 7z  
application/x-abiword abw  
application/x-ace-compressed ace  
#  
application/x-amf  
application/x-apple-diskimage dmg  
application/x-authorware-bin aab x32 u32 vox  
application/x-authorware-map aam  
application/x-authorware-seg aas  
application/x-bcpio bcpio  
application/x-bittorrent torrent  
application/x-blorb blb blorb  
application/x-bzip bz  
application/x-bzip2 bz2 boz  
application/x-cbr cbr cba cbt cbz cb7  
application/x-cdlink vcd  
application/x-cfs-compressed cfs  
application/x-chat chat  
application/x-chess-pgn pgn  
# application/x-compress  
application/x-conference nsc  
application/x-cpio cpio  
application/x-csh csh  
application/x-debian-package deb udeb  
application/x-dgc-compressed dgc  
application/x-director dir dcr dxr cst cct cxt w3d fgd swa  
application/x-doom wad  
application/x-dtbncx+xml ncx  
application/x-dtbook+xml dtb  
application/x-dtbresource+xml res  
application/x-dvi dvi  
application/x-envoy evy  
application/x-eva eva  
application/x-font-bdf bdf

```
#
application/x-font-dos
# application/x-font-framemaker
application/x-font-ghostscript gsf
# application/x-font-libgrx
application/x-font-linux-psf psf
application/x-font-pcf pcf
application/x-font-snf snf
# application/x-font-speedo
# application/x-font-sunos-news
application/x-font-type1 pfa pfb pfm afm
# application/x-font-vfont
application/x-freearc arc
application/x-futuresplash spl
application/x-gca-compressed gca
application/x-glulx ulx
application/x-gnumeric gnumeric
application/x-gramps-xml gramps
application/x-gtar gtar
# application/x-gzip
application/x-hdf hdf
application/x-install-instructions install
application/x-iso9660-image iso
application/x-java-jnlp-file jnlp
application/x-latex latex
application/x-lzh-compressed lzh lha
application/x-mie mie
application/x-mobipocket-ebook prc mobi
application/x-ms-application application
application/x-ms-shortcut lnk
application/x-ms-wmd wmd
application/x-ms-wmz wmz
application/x-ms-xbap xbap
application/x-msaccess mdb
application/x-msbinder obd
application/x-mscardfile crd
application/x-msclip clp
application/x-msdownload exe
dll com bat msi
application/x-msmediaview mvb m13 m14
application/x-msmetafile wmf wmz emf emz
application/x-msmoney mny
application/x-mspublisher pub
application/x-msschedule scd
application/x-msterial trm
application/x-mswrite wri
application/x-netcdf nc cdf
application/x-nzb nzb
```

application/x-pkcs12 p12 pfx  
application/x-pkcs7-certificates p7b spc  
application/x-pkcs7-certreqresp p7r  
application/x-rar-compressed rar  
application/x-research-info-systems ris  
application/x-sh sh  
application/x-shar shar  
application/x-shockwave-flash swf  
application/x-silverlight-app xap  
application/x-sql sql  
application/x-stuffit sit  
application/x-stuffitx sitx  
application/x-subrip srt  
application/x-sv4cpio sv4cpio  
application/x-sv4crc sv4crc  
application/x-t3vm-image t3  
application/x-tads gam  
application/x-tar tar  
application/x-tcl tcl  
application/x-tex tex  
application/x-tex-tfm tfm  
application/x-texinfo texinfo  
texi  
application/x-tgif obj  
application/x-ustar ustar  
application/x-wais-source src  
# application/x-www-form-urlencoded  
application/x-x509-ca-cert der crt  
application/x-xfig fig  
application/x-xliff+xml xlf  
application/x-xpinstall xpi  
application/x-xz xz  
application/x-zmachine z1 z2 z3 z4 z5 z6 z7 z8  
# application/x400-bp  
# application/xacml+xml  
application/xaml+xml xaml  
# application/xcap-att+xml  
# application/xcap-caps+xml  
application/xcap-diff+xml xdf  
# application/xcap-el+xml  
# application/xcap-error+xml  
# application/xcap-ns+xml  
# application/xcon-conference-info+xml  
# application/xcon-conference-info-diff+xml  
application/xenc+xml xenc  
application/xhtml+xml xhtml xht  
# application/xhtml-voice+xml  
application/xml xml xsl

application/xml-dtd dtd  
#  
application/xml-external-parsed-entity  
# application/xml-patch+xml  
# application/xmpp+xml  
application/xop+xml xop  
application/xproc+xml xpl  
application/xslt+xml xslt  
application/xspf+xml xspf  
application/xv+xml mxml xhvm1 xvml xvm  
application/yang yang  
application/yin+xml yin  
application/zip zip  
# application/zlib  
# audio/1d-interleaved-parityfec  
# audio/32kadpcm  
# audio/3gpp  
# audio/3gpp2  
# audio/ac3  
audio/adpcm adp  
# audio/amr  
# audio/amr-wb  
# audio/amr-wb+  
# audio/aptx  
# audio/asc  
# audio/atrac-advanced-lossless  
# audio/atrac-x  
# audio/atrac3  
audio/basic au snd  
# audio/bv16  
# audio/bv32  
# audio/clearmode  
# audio/cn  
# audio/dat12  
# audio/dls  
# audio/dsr-es201108  
# audio/dsr-es202050  
# audio/dsr-es202211  
# audio/dsr-es202212  
# audio/dv  
# audio/dvi4  
# audio/eac3  
# audio/encaprtsp  
# audio/evrc  
# audio/evrc-qcp  
# audio/evrc0  
# audio/evrc1  
# audio/evrcb

```
# audio/evrcb0
# audio/evrcb1
# audio/evrcnw
# audio/evrcnw0
# audio/evrcnw1
# audio/evrcwb
# audio/evrcwb0
#
  audio/evrcwb1
# audio/evs
# audio/example
# audio/fwdred
# audio/g711-0
# audio/g719
# audio/g722
# audio/g7221
# audio/g723
# audio/g726-16
# audio/g726-24
# audio/g726-32
# audio/g726-40
# audio/g728
# audio/g729
# audio/g7291
# audio/g729d
# audio/g729e
# audio/gsm
# audio/gsm-efr
# audio/gsm-hr-08
# audio/ilbc
# audio/ip-mr_v2.5
# audio/isac
# audio/l16
# audio/l20
# audio/l24
# audio/l8
# audio/lpc
audio/midi  mid midi kar rmi
# audio/mobile-xmf
audio/mp4  m4a mp4a
# audio/mp4a-latm
# audio/mpa
# audio/mpa-robust
audio/mpeg  mpga mp2 mp2a mp3 m2a m3a
# audio/mpeg4-generic
# audio/musepack
audio/ogg  oga ogg spx
# audio/opus
```

```
# audio/parityfec
# audio/pcma
# audio/pcma-wb
# audio/pcmu
# audio/pcmu-wb
# audio/prs.sid
# audio/qcelp
# audio/raptorfec
# audio/red
# audio/rtp-enc-aescm128
# audio/rtp-midi
# audio/rtploopback
# audio/rtx
audio/s3m    s3m
audio/silk   sil
# audio/smv
# audio/smv-qcp
# audio/smv0
# audio/sp-midi
# audio/speex
# audio/t140c
# audio/t38
#
  audio/telephone-event
# audio/tone
# audio/uemclip
# audio/ulpfec
# audio/vdvi
# audio/vmr-wb
# audio/vnd.3gpp.iufp
# audio/vnd.4sb
# audio/vnd.audiokoz
# audio/vnd.celp
# audio/vnd.cisco.nse
# audio/vnd.cmles.radio-events
# audio/vnd.cns.anp1
# audio/vnd.cns.inf1
audio/vnd.dece.audio  uva uvva
audio/vnd.digital-winds  eol
# audio/vnd.dlna.adts
# audio/vnd.dolby.heaac.1
# audio/vnd.dolby.heaac.2
# audio/vnd.dolby.mlp
# audio/vnd.dolby.mps
# audio/vnd.dolby.pl2
# audio/vnd.dolby.pl2x
# audio/vnd.dolby.pl2z
# audio/vnd.dolby.pulse.1
```

audio/vnd.dra dra  
audio/vnd.dts dts  
audio/vnd.dts.hd dtshd  
# audio/vnd.dvb.file  
# audio/vnd.everad.plj  
# audio/vnd.hns.audio  
audio/vnd.lucent.voice lvp  
audio/vnd.ms-playready.media.pya pya  
# audio/vnd.nokia.mobile-xmf  
# audio/vnd.nortel.vbk  
audio/vnd.nuera.ecelp4800 ecelp4800  
audio/vnd.nuera.ecelp7470 ecelp7470  
audio/vnd.nuera.ecelp9600 ecelp9600  
# audio/vnd.octel.sbc  
# audio/vnd.qcelp  
# audio/vnd.rhetorex.32kadpcm  
audio/vnd.rip rip  
#  
audio/vnd.sealedmedia.softseal.mpeg  
# audio/vnd.vmx.cvsd  
# audio/vorbis  
# audio/vorbis-config  
audio/webm weba  
audio/x-aac aac  
audio/x-aiff aif aiff aifc  
audio/x-caf caf  
audio/x-flac flac  
audio/x-matroska mka  
audio/x-mpegurl m3u  
audio/x-ms-wax wax  
audio/x-ms-wma wma  
audio/x-pn-realaudio ram ra  
audio/x-pn-realaudio-plugin rmp  
# audio/x-tta  
audio/x-wav wav  
audio/xm xm  
chemical/x-cdx cdx  
chemical/x-cif cif  
chemical/x-cmdf cmdf  
chemical/x-cml cml  
chemical/x-csml csml  
# chemical/x-pdb  
chemical/x-xyz xyz  
font/collection ttc  
font/otf otf  
# font/sfnt  
font/ttf ttf  
font/woff woff

font/woff2 woff2  
image/bmp bmp  
image/cgm cgm  
# image/dicom-rle  
# image/emf  
# image/example  
# image/fits  
image/g3fax g3  
image/gif gif  
image/ief ief  
# image/jls  
# image/jp2  
image/jpeg jpeg jpg jpe  
# image/jpm  
# image/jpx  
image/ktx ktx  
# image/naplps  
image/png png  
image/prs.btif btif  
# image/prs.pti  
#  
image/pwg-raster  
image/sgi sgi  
image/svg+xml svg svgz  
# image/t38  
image/tiff tiff tif  
# image/tiff-fx  
image/vnd.adobe.photoshop psd  
# image/vnd.airzip.accelerator.azv  
# image/vnd.cns.inf2  
image/vnd.dece.graphic uvi uvvi uvg uvvg  
image/vnd.djvu djvu djv  
image/vnd.dvb.subtitle sub  
image/vnd.dwg dwg  
image/vnd.dxf dxf  
image/vnd.fastbidsheet fbs  
image/vnd.fpx fpx  
image/vnd.fst fst  
image/vnd.fujixerox.edmics-mmr mmr  
image/vnd.fujixerox.edmics-rlc rlc  
# image/vnd.globalgraphics.pgb  
# image/vnd.microsoft.icon  
# image/vnd.mix  
# image/vnd.mozilla.apng  
image/vnd.ms-modi mdi  
image/vnd.ms-photo wdp  
image/vnd.net-fpx npx  
# image/vnd.radiance

# image/vnd.sealed.png  
# image/vnd.sealedmedia.softseal.gif  
# image/vnd.sealedmedia.softseal.jpg  
# image/vnd.svf  
# image/vnd.tencent.tap  
# image/vnd.valve.source.texture  
image/vnd.wap.wbmp wbmp  
image/vnd.xiff xif  
# image/vnd.zbrush.pcx  
image/webp webp  
# image/wmf  
image/x-3ds 3ds  
image/x-cmu-raster ras  
image/x-cmx cmx  
image/x-freehand fh  
fhc fh4 fh5 fh7  
image/x-icon ico  
image/x-mrsid-image sid  
image/x-pcx pcx  
image/x-pict pic pct  
image/x-portable-anymap pnm  
image/x-portable-bitmap pbm  
image/x-portable-graymap pgm  
image/x-portable-pixmap ppm  
image/x-rgb rgb  
image/x-tga tga  
image/x-xbitmap xbm  
image/x-xpixmap xpm  
image/x-xwindowdump xwd  
# message/cpim  
# message/delivery-status  
# message/disposition-notification  
# message/example  
# message/external-body  
# message/feedback-report  
# message/global  
# message/global-delivery-status  
# message/global-disposition-notification  
# message/global-headers  
# message/http  
# message/imdn+xml  
# message/news  
# message/partial  
message/rfc822 eml mime  
# message/s-http  
# message/sip  
# message/sipfrag  
# message/tracking-status

```
# message/vnd.si.simp
# message/vnd.wfa.wsc
# model/example
# model/gltf+json
model/iges igs iges
model/mesh msh mesh silo
model/vnd.collada+xml dae
model/vnd.dwf dwf
#
  model/vnd.flatland.3dml
model/vnd.gdl gdl
# model/vnd.gs-gdl
# model/vnd.gs.gdl
model/vnd.gtw gtw
# model/vnd.moml+xml
model/vnd.mts mts
# model/vnd.opengex
# model/vnd.parasolid.transmit.binary
# model/vnd.parasolid.transmit.text
# model/vnd.rosette.annotated-data-model
# model/vnd.valve.source.compiled-map
model/vnd.vtu vtu
model/vrml wrl vrml
model/x3d+binary x3db x3dbz
# model/x3d+fastinfoset
model/x3d+vrml x3dv x3dvz
model/x3d+xml x3d x3dz
# model/x3d-vrml
# multipart/alternative
# multipart/appledouble
# multipart/byteranges
# multipart/digest
# multipart/encrypted
# multipart/example
# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
# multipart/signed
# multipart/voice-message
# multipart/x-mixed-replace
# text/1d-interleaved-parityfec
text/cache-manifest appcache
text/calendar ics ifb
text/css css
text/csv csv
```

# text/csv-schema  
#  
text/directory  
# text/dns  
# text/ecmascript  
# text/encaprtpt  
# text/enriched  
# text/example  
# text/fwdred  
# text/grammar-ref-list  
text/html html htm  
# text/javascript  
# text/jcr-cnd  
# text/markdown  
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text/n3 n3  
# text/parameters  
# text/parityfec  
text/plain txt text conf def list log in  
# text/provenance-notation  
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# text/prs.prop.logic  
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# text/rtf  
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# text/t140  
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text/troff t tr roff man me ms  
text/turtle ttl  
# text/ulpfec  
text/uri-list uri uris urls  
text/vcard vcard  
# text/vnd.a  
# text/vnd.abc  
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text/vnd.curl.dcurl dcurl  
text/vnd.curl.mcurl mcurl  
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# text/vnd.debian.copyright  
# text/vnd.dmclientscript  
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# text/vnd.iptc.nitf
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# text/vnd.motorola.reflex
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# text/vnd.si.uricatalogue
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text/x-fortran f for f77 f90
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text/x-pascal p pas
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text/x-uuencode uu
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# text/xml
# text/xml-external-parsed-entity
# video/1d-interleaved-parityfec
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# video/3gpp-tt
video/3gpp2 3g2
# video/bmpeg
# video/bt656
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# video/example
video/h261 h261
video/h263 h263
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# video/h264-rcdo  
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# video/vnd.sealedmedia.softseal.mov  
video/vnd.uvu.mp4 uvu uvvu  
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video/x-f4v f4v  
video/x-fli fli  
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video/x-mng mng  
video/x-ms-asf asf asx  
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video/x-ms-wvx wvx  
video/x-msvideo avi  
video/x-sgi-movie movie  
video/x-smv smv  
x-conference/x-cooltalk ice

#### Found

in path(s):

\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/META-INF/http/mime.types

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

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Found in path(s):

\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/multipart/package-info.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/HttpAttributes.java  
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\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/filter/DefaultFilterEntry.java  
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\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/annotation/QueryValue.java  
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/opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/annotation/RequestAttribute.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/util/OutgoingRequestProcessorMatcher.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/annotation/PathVariable.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/context/ServerContextPathProvider.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/bind/RequestBinderRegistry.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/filter/FilterOrderProvider.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/annotation/Get.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/HTTPHeaderValues.java  
\*  
/opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/MutableHttpMessage.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/context/ServerRequestContext.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/filter/HttpServerFilterResolver.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/MediaType.java

\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/ssl/SslConfigurationException.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/context/ClientContextPathProvider.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/exceptions/package-info.java  
 \*  
 /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/annotation/CustomHttpMethod.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/uri/UriTemplate.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/hateoas/Link.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/ssl/package-info.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/hateoas/package-info.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/context/event/HttpRequestReceivedEvent.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/ssl/SslBuilder.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/bind/binders/RequestArgumentBinder.java  
 \*  
 /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/multipart/FileUpload.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/annotation/Headers.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/BasicAuth.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/MutableHttpResponse.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/cookie/CookieConfiguration.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/annotation/Options.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/annotation/Post.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/codec/MediaTypeCodec.java  
 \*  
 /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/multipart/CompletedPart.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/uri/package-info.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
 jar/io/micronaut/http/FullHttpRequest.java  
 \* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-

jar/io/micronaut/http/exceptions/ContentLengthExceededException.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/bind/binders/RequestAttributeAnnotationBinder.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/resource/package-info.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/uri/UriBuilder.java  
\*  
/opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/HttpResponseProvider.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/bind/binders/ContinuationArgumentBinder.kt  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/cookie/CookieFactory.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/sse/package-info.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/HttpParameters.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/filter/ClientFilterChain.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/bind/binders/RequestBeanAnnotationBinder.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/annotation/Header.java  
\*  
/opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/HttpRequest.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/annotation/RequestBean.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/hateoas/DefaultLink.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/simple/SimpleHttpParameters.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/codec/CodecConfiguration.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/simple/cookies/SimpleCookieFactory.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/simple/SimpleHttpResponseFactory.java  
\*  
/opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/codec/package-info.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/cookie/Cookies.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/simple/SimpleHttpRequest.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-  
jar/io/micronaut/http/exceptions/UriSyntaxException.java

\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/annotation/Put.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/filter/OncePerRequestHttpServerFilter.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/util/OutgoingHttpRequestProcessor.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/multipart/StreamingFileUpload.java  
\*  
/opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/simple/package-info.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/codec/CodecException.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/annotation/Status.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/bind/binders/NonBlockingBodyArgumentBinder.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/HttpRequestWrapper.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/context/event/HttpRequestTerminatedEvent.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/exceptions/HttpException.java  
\*  
/opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/bind/binders/DefaultBodyAnnotationBinder.java  
\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/io/micronaut/http/codec/DefaultMediaTypeCodecRegistry.java  
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\* /opt/cola/permits/1701214100\_1685496818.7779105/0/micronaut-http-3-9-2-sources-

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jar/io/micronaut/http/cookie/SameSiteConverter.java
* /opt/cola/permits/1701214100_1685496818.7779105/0/micronaut-http-3-9-2-sources-
jar/io/micronaut/http/FilterCapableHttpRequest.java
* /opt/cola/permits/1701214100_1685496818.7779105/0/micronaut-http-3-9-2-sources-
jar/io/micronaut/http/bind/binders/HttpCoroutineContextFactory.kt
*
/opt/cola/permits/1701214100_1685496818.7779105/0/micronaut-http-3-9-2-sources-
jar/io/micronaut/http/filter/FilterPatternStyle.java
* /opt/cola/permits/1701214100_1685496818.7779105/0/micronaut-http-3-9-2-sources-
jar/io/micronaut/http/util/HttpTypeInfoProvider.java
* /opt/cola/permits/1701214100_1685496818.7779105/0/micronaut-http-3-9-2-sources-
jar/io/micronaut/http/ssl/AbstractClientSslConfiguration.java
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* /opt/cola/permits/1701214100_1685496818.7779105/0/micronaut-http-3-9-2-sources-jar/META-INF/native-
image/io.micronaut.http/micronaut-http/native-image.properties
```

## 1.131 micronaut-core-reactive 3.9.2

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* /opt/cola/permits/1701214174_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-jar/META-
INF/native-image/io.micronaut/micronaut-core-reactive/native-image.properties
```

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- \* /opt/cola/permits/1701214174\_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-jar/io/micronaut/core/async/ReactiveStreamsTypeInfoProvider.java
  - \* /opt/cola/permits/1701214174\_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-jar/io/micronaut/core/async/publisher/PublishersOptimizations.java
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- \* /opt/cola/permits/1701214174\_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-jar/io/micronaut/core/async/subscriber/SingleThreadedBufferingSubscriber.java
- \* /opt/cola/permits/1701214174\_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-jar/io/micronaut/core/async/processor/SingleSubscriberProcessor.java
- \*
- /opt/cola/permits/1701214174\_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-jar/io/micronaut/core/async/subscriber/TypedSubscriber.java
- \* /opt/cola/permits/1701214174\_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-jar/io/micronaut/core/async/processor/package-info.java
- \* /opt/cola/permits/1701214174\_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-jar/io/micronaut/core/async/subscriber/Completable.java
- \* /opt/cola/permits/1701214174\_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-jar/io/micronaut/core/async/subscriber/Emitter.java
- \* /opt/cola/permits/1701214174\_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-jar/io/micronaut/core/async/subscriber/CompletionAwareSubscriber.java
- \* /opt/cola/permits/1701214174\_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-jar/io/micronaut/core/async/subscriber/package-info.java

```

* /opt/cola/permits/1701214174_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-
jar/io/micronaut/core/async/publisher/AsyncResultPublisher.java
*
/opt/cola/permits/1701214174_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-
jar/io/micronaut/core/async/publisher/package-info.java
* /opt/cola/permits/1701214174_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-
jar/io/micronaut/core/async/publisher/Publishers.java
* /opt/cola/permits/1701214174_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-
jar/io/micronaut/core/async/package-info.java
* /opt/cola/permits/1701214174_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-
jar/io/micronaut/core/async/publisher/SingleSubscriberPublisher.java
* /opt/cola/permits/1701214174_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-
jar/io/micronaut/core/async/publisher/CompletableFuturePublisher.java
* /opt/cola/permits/1701214174_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-
jar/io/micronaut/core/async/annotation/AsyncResult.java
* /opt/cola/permits/1701214174_1685496834.1353533/0/micronaut-core-reactive-3-9-2-sources-
jar/io/micronaut/core/async/processor/SingleThreadedBufferingProcessor.java

```

## 1.132 micronaut-router 3.9.2

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* /opt/cola/permits/1701214111_1685496841.8451972/0/micronaut-router-3-9-2-sources-
jar/io/micronaut/web/router/naming/HyphenatedUriNamingStrategy.java
* /opt/cola/permits/1701214111_1685496841.8451972/0/micronaut-router-3-9-2-sources-
jar/io/micronaut/web/router/package-info.java
* /opt/cola/permits/1701214111_1685496841.8451972/0/micronaut-router-3-9-2-sources-
jar/io/micronaut/web/router/exceptions/UnsatisfiedHeaderRouteException.java
*

```

/opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/version/resolution/ParameterVersionResolver.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/StatusRouteMatch.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/exceptions/UnsatisfiedCookieValueRouteException.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/RouteMatchUtils.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/qualifier/ConsumesMediaTypeQualifier.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/exceptions/RoutingException.java  
\*  
/opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/exceptions/UnsatisfiedPathVariableRouteException.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/version/package-info.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/version/resolution/RequestVersionResolver.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/AnnotatedFilterRouteBuilder.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/version/resolution/ParameterVersionResolverConfiguration.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/filter/FilteredRouter.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/ErrorRoute.java  
\*  
/opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/version/resolution/HeaderVersionResolverConfiguration.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/ResourceRoute.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/UnresolvedArgument.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/resource/StaticResourceConfiguration.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/StatusRoute.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/version/RoutesVersioningConfiguration.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/version/resolution/VersionResolver.java  
\*  
/opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/BasicObjectRouteMatch.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/version/ConfigurationDefaultVersionProvider.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-

jar/io/micronaut/web/router/DefaultFilterRoute.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/RouteMatch.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/ErrorRouteMatch.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/MethodBasedRoute.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/exceptions/UnsatisfiedPartRouteException.java  
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/opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/FilterRoute.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/exceptions/UnsatisfiedRequestAttributeRouteException.java  
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jar/io/micronaut/web/router/qualifier/package-info.java  
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jar/io/micronaut/web/router/version/resolution/package-info.java  
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jar/io/micronaut/web/router/exceptions/UnsatisfiedRouteException.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/NullArgument.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/naming/ConfigurableUriNamingStrategy.java  
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/opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/version/resolution/HeaderVersionResolver.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/RouteBuilder.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/exceptions/UnsatisfiedBodyRouteException.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/resource/package-info.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/version/DefaultVersionProvider.java  
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jar/io/micronaut/web/router/UriRouteMatch.java  
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/opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/GroovyRouteBuilder.groovy  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/exceptions/DuplicateRouteException.java  
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\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-  
jar/io/micronaut/web/router/exceptions/UnsatisfiedQueryValueRouteException.java

\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/naming/package-info.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/RouteInfo.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/AbstractRouteMatch.java  
\*  
/opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/Route.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/filter/RouteMatchFilter.java  
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\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/version/RouteVersionFilter.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/AnnotatedMethodRouteBuilder.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/Router.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/qualifier/ProducesMediaTypeQualifier.java  
\*  
/opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/version/VersionAwareRouterListener.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/version/VersionRouteMatchFilter.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/UriRoute.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/MethodBasedRouteMatch.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/DefaultRouter.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/DefaultUriRouteMatch.java  
\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/BeanDefinitionFilterRoute.java

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\* /opt/cola/permits/1701214111\_1685496841.8451972/0/micronaut-router-3-9-2-sources-jar/io/micronaut/web/router/resource/StaticResourceResolverFactory.java

## 1.133 micronaut-websocket 3.9.2

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\* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/WebSocketClientFactoryResolver.java  
 \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/WebSocketClientFactory.java  
 \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/WebSocketPongMessage.java

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- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/WebSocketVersion.java
- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/exceptions/WebSocketClientException.java
- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/context/DefaultWebSocketBeanRegistry.java
- \*
- /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/WebSocketClient.java
- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/annotation/OnClose.java
- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/context/WebSocketBean.java
- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/interceptor/WebSocketSessionAware.java
- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/annotation/ClientWebSocket.java
- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/annotation/OnError.java
- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/annotation/WebSocketMapping.java
- \*
- /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/bind/package-info.java
- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/context/WebSocketBeanRegistry.java
- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/WebSocketSession.java
- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/event/WebSocketMessageProcessedEvent.java
- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/exceptions/WebSocketException.java
- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/interceptor/package-info.java
- \* /opt/cola/permits/1701214134\_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-jar/io/micronaut/websocket/WebSocketClientRegistry.java
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/opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/context/package-info.java
* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/bind/WebSocketState.java
* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/CloseReason.java
* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/annotation/package-info.java
* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/event/WebSocketEvent.java
* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/package-info.java
* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/event/WebSocketSessionOpenEvent.java
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/opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
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* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/bind/WebSocketStateBinderRegistry.java
* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/event/WebSocketSessionClosedEvent.java
* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/interceptor/ClientWebSocketInterceptor.java
* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/annotation/OnMessage.java
* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/exceptions/WebSocketSessionException.java
*
/opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
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* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
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* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/bind/WebSocketStateBinder.java
* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/annotation/WebSocketComponent.java
* /opt/cola/permits/1701214134_1685496851.5276954/0/micronaut-websocket-3-9-2-sources-
jar/io/micronaut/websocket/WebSocketBroadcaster.java

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## 1.134 micronaut-http-server 3.9.2

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\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/context/package-info.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/exceptions/package-info.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/util/locale/CookieLocaleResolver.java  
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\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/exceptions/HttpStatusHandler.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/exceptions/InternalServerException.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/exceptions/ConversionErrorHandler.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/util/locale/CompositeHttpLocaleResolver.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/util/HttpHostResolver.java

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* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
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*
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jar/io/micronaut/http/server/context/ServerRequestContextInvocationInstrumenter.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/util/locale/HttpLocaleResolutionConfiguration.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/websocket/ServerWebSocketProcessor.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/binding/LocaleArgumentBinder.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/exceptions/ExceptionHandler.java
*
/opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/util/DefaultHttpClientAddressResolver.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/cors/CorsFilter.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/cors/CorsUtil.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/types/package-info.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/types/files/FileCustomizableResponseType.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/types/files/StreamedFile.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/exceptions/UnsatisfiedArgumentHandler.java
*
/opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/util/HttpClientAddressResolver.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/binding/BasicAuthArgumentBinder.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/util/locale/package-info.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/util/package-info.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/exceptions/DuplicateRouteHandler.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/cors/CorsOriginConfiguration.java
*
/opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/types/CustomizableResponseTypeException.java
* /opt/cola/permits/1701214176_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-
jar/io/micronaut/http/server/types/files/package-info.java

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\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/util/locale/HttpAbstractLocaleResolver.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/codec/TextStreamCodec.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/exceptions/ContentLengthExceededHandler.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/cors/package-info.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/HttpServerConfiguration.java  
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/opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/package-info.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/exceptions/UnsatisfiedRouteHandler.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/exceptions/HttpServerException.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/exceptions/ServerStartupException.java  
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\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/exceptions/JsonExceptionHandler.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/types/files/SystemFile.java  
\*  
/opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/cors/CorsOriginConverter.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/util/DefaultHttpHostResolver.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/codec/package-info.java  
\* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/exceptions/URISyntaxHandler.java  
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- \*
- /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/cors/CrossOriginUtil.java
- \* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/util/locale/HttpLocalizedMessageSource.java

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- \*
- /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/exceptions/response/DefaultErrorContext.java
- \* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/RouteExecutor.java
- \* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/exceptions/response/ErrorResponseProcessor.java
- \* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/exceptions/response/ErrorContext.java
- \* /opt/cola/permits/1701214176\_1685496843.3541024/0/micronaut-http-server-3-9-2-sources-jar/io/micronaut/http/server/CoroutineHelper.java

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# 1.135 micronaut-http-netty 3.9.2

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\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-

jar/io/micronaut/http/netty/stream/Http2Content.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/channel/KQueueEventLoopGroupFactory.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/NettyHttpRequestBuilder.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/channel/converters/DefaultChannelOptionFactory.java  
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/opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/cookies/NettyCookieFactory.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/stream/DefaultWebSocketHttpResponse.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/websocket/WebSocketSessionRepository.java  
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jar/io/micronaut/http/netty/configuration/NettyGlobalConfiguration.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/reactive/HandlerPublisher.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/channel/EventLoopGroupFactory.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/stream/JsonSubscriber.java  
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/opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/stream/StreamedHttpRequest.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/stream/DefaultHttp2Content.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/channel/package-info.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/channel/DefaultEventLoopGroupRegistry.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/channel/EpollEventLoopGroupFactory.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/stream/DelegateHttpRequest.java  
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jar/io/micronaut/http/netty/stream/WebSocketHttpResponse.java  
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jar/io/micronaut/http/netty/NettyMutableHttpResponse.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/channel/KQueueAvailabilityCondition.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/stream/DelegateStreamedHttpRequest.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/stream/HttpStreamsHandler.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-  
jar/io/micronaut/http/netty/channel/NettyThreadFactory.java

\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-jar/io/micronaut/http/netty/reactive/HotObservable.java  
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\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-jar/io/micronaut/http/netty/cookies/package-info.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-jar/io/micronaut/http/netty/cookies/NettyCookies.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-jar/io/micronaut/http/netty/stream/EmptyHttpResponse.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-jar/io/micronaut/http/netty/NettyHttpParameters.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-jar/io/micronaut/http/netty/NettyHttpResponseBuilder.java  
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/opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-jar/io/micronaut/http/netty/channel/EventLoopGroupRegistry.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-jar/io/micronaut/http/netty/channel/ChannelPipelineListener.java  
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\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-jar/io/micronaut/http/netty/channel/DefaultEventLoopGroupConfiguration.java  
\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-jar/io/micronaut/http/netty/websocket/package-info.java  
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\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-jar/io/micronaut/http/netty/reactive/HandlerSubscriber.java  
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\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-jar/io/micronaut/http/netty/AbstractNettyHttpRequest.java  
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\* /opt/cola/permits/1701214186\_1685496828.8386283/0/micronaut-http-netty-3-9-2-sources-jar/io/micronaut/http/netty/channel/converters/KQueueChannelOptionFactory.java  
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\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/discovery/config/DefaultCompositeConfigurationClient.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/discovery/event/ServiceReadyEvent.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/discovery/event/AbstractServiceInstanceEvent.java

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\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/retry/intercept/AnnotationRetryStateBuilder.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/discovery/exceptions/DiscoveryException.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/discovery/exceptions/NoAvailableServiceException.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/discovery/DefaultServiceInstanceIdGenerator.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/logging/LoggingSystem.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/health/HeartbeatTask.java

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/opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/retry/annotation/DefaultRetryPredicate.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/health/CurrentHealthStatus.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/health/HeartbeatDiscoveryClientCondition.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/health/package-info.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/discovery/registration/RegistrationConfiguration.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/discovery/ServiceInstanceIdGenerator.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/runtime/http/scope/RequestAware.java

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\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/discovery/cloud/ComputeInstanceMetadata.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/discovery/DiscoveryClient.java

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\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/retry/RetryState.java

\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/discovery/ServiceInstance.java

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jar/io/micronaut/retry/annotation/Fallback.java  
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jar/io/micronaut/discovery/metadata/ServiceInstanceMetadataContributor.java  
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jar/io/micronaut/runtime/http/codec/TextPlainCodec.java  
\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-  
jar/io/micronaut/retry/event/CircuitOpenEvent.java  
\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-  
jar/io/micronaut/runtime/http/codec/MediaTypeCodecRegistryFactory.java  
\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-  
jar/io/micronaut/health/DefaultCurrentHealthStatus.java

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*
/opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/retry/annotation/package-info.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/runtime/http/scope/RequestScope.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/health/HealthStatus.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/StaticServiceInstanceList.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/logging/LogLevel.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/cloud/digitalocean/DigitalOceanInstanceMetadata.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/retry/event/RetryEventListener.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/retry/event/package-info.java
*
/opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/EmbeddedServerInstance.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/metadata/package-info.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/event/package-info.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/event/ServiceStoppedEvent.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/cloud/ComputeInstanceMetadataResolverUtils.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/registration/package-info.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/retry/RetryStateBuilder.java
*
/opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/DefaultServiceInstance.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/cloud/NetworkInterface.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/retry/event/CircuitClosedEvent.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/retry/exception/FallbackException.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/cloud/AbstractComputeInstanceMetadata.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/DefaultCompositeDiscoveryClient.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/retry/intercept/MutableRetryState.java
*

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/opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/cloud/digitalocean/DigitalOceanMetadataConfiguration.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/cloud/digitalocean/DigitalOceanNetworkInterface.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/cloud/digitalocean/DigitalOceanMetadataKeys.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
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* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/CompositeDiscoveryClient.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/registration/AutoRegistration.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/retry/intercept/package-info.java
*
/opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/cloud/ComputeInstanceMetadataResolver.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/DiscoveryConfiguration.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/ServiceInstanceList.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/logging/PropertiesLoggingLevelsConfigurer.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/retry/intercept/CircuitBreakerRetry.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/retry/package-info.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/retry/CircuitState.java
*
/opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/discovery/config/ConfigurationClient.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/retry/intercept/DefaultRetryInterceptor.java
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jar/io/micronaut/reactive/flow/converters/FlowConverterRegistrar.java
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jar/io/micronaut/retry/annotation/CircuitBreaker.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/health/HeartbeatEnabled.java
* /opt/cola/permits/1701214178_1685496848.4589/0/micronaut-runtime-3-9-2-sources-
jar/io/micronaut/retry/annotation/RetryPredicate.java
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\* /opt/cola/permits/1701214178\_1685496848.4589/0/micronaut-runtime-3-9-2-sources-jar/io/micronaut/logging/impl/LogbackUtils.java  
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image/io.micronaut/micronaut-runtime/native-image.properties
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## 1.137 micronaut-http-server-netty 3.9.2

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jar/io/micronaut/http/server/netty/DelegateNettyEmbeddedServices.java
* /opt/cola/permits/1701214102_1685496837.987133/0/micronaut-http-server-netty-3-9-2-sources-
jar/io/micronaut/http/server/netty/StreamTypeHandler.java
*
/opt/cola/permits/1701214102_1685496837.987133/0/micronaut-http-server-netty-3-9-2-sources-
jar/io/micronaut/http/server/netty/ServerAttributeKeys.java
* /opt/cola/permits/1701214102_1685496837.987133/0/micronaut-http-server-netty-3-9-2-sources-
jar/io/micronaut/http/server/netty/NettyEmbeddedServerFactory.java
* /opt/cola/permits/1701214102_1685496837.987133/0/micronaut-http-server-netty-3-9-2-sources-
jar/io/micronaut/http/server/netty/NettyEmbeddedServices.java
* /opt/cola/permits/1701214102_1685496837.987133/0/micronaut-http-server-netty-3-9-2-sources-
jar/io/micronaut/http/server/netty/NettyEmbeddedServer.java
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jar/io/micronaut/http/server/netty/HttpToHttpsRedirectHandler.java
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jar/io/micronaut/http/server/netty/DefaultNettyEmbeddedServerFactory.java
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jar/io/micronaut/http/server/netty/handler/accesslog/element/NotImplementedElementBuilder.java
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/opt/cola/permits/1701214102_1685496837.987133/0/micronaut-http-server-netty-3-9-2-sources-
jar/io/micronaut/http/server/netty/types/stream/NettyStreamedCustomizableResponseType.java
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  - \* /opt/cola/permits/1701214102\_1685496837.987133/0/micronaut-http-server-netty-3-9-2-sources-jar/io/micronaut/http/server/netty/NettyServerCustomizer.java
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# 1.138 kotlin 1.4.20

## 1.138.1 Available under license :

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

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{"version":3,"file":"kotlin.js","sources":["wrapper.js","arrayUtils.js","callableReferenceUtils.js","conversions.js","core.js","long.js","markerFunctions.js","misc.js","polyfills.js","rtti.js","runtime/arrayUtils.kt","runtime/Enum.kt","primitiveCompanionObjects.kt","generated/_Arrays.kt","generated/_Ranges.kt","kotlin/UByte.kt","kotlin/UInt.kt","kotlin/UShort.kt","Ranges.kt","collections/Collections.kt","collections/Maps.kt","collections/Sets.kt","text/StringNumberConversions.kt","kotlin/UnsignedUtils.kt","collections/Iterables.kt","collections/Sequences.kt","util/Preconditions.kt","generated/_ArraysJs.kt","comparisons/Comparisons.kt","util/Standard.kt","generated/_ComparisonsJs.kt","kotlin/ULong.kt","generated/_Collections.kt","kotlin/collections.kt","collections/Iterators.kt","generated/_Comparisons.kt","generated/_Maps.kt","generated/_Sequences.kt","generated/_Sets.kt","generated/_Strings.kt","text/Strings.kt","kotlin/text/string.kt","kotlin/UByteArray.kt","kotlin/UIntArray.kt","kotlin/ULongArray.kt","kotlin/UShortArray.kt","generated/_UArrays.kt","generated/_UCollections.kt","generated/_UComparisons.kt","generated/_URanges.kt","generated/_USequences.kt","kotlin/ExceptionsH.kt","kotlin/JsAnnotationsH.kt","Collections.kt","Iterators.kt","ProgressionIterators.kt","Progressions.kt","Range.kt","Unit.kt","annotation/Annotations.kt","internal/InternalAnnotations.kt","internal/progressionUtil.kt","kotlin/builtins.kt","kotlin/jsTypeOf.kt","kotlin/kotlin.kt","kotlin/coroutines/CoroutineImpl.kt","util/Result.kt","coroutines/Continuation.kt","kotlin/coroutines/intrinsics/IntrinsicsJs.kt","kotlin/currentBemMisc.kt","kotlin/exceptions.kt","kotlin/jsOperators.kt","kotlin/math_js-v1.kt","kotlin/numbers_js-v1.kt","kotlin/reflection_js-v1.kt","kotlin/text/numberConversions_js-v1.kt","generated/_CollectionsJs.kt","generated/_StringsJs.kt","generated/_UArraysJs.kt","jquery/ui.kt","kotlin/Comparator.kt","kotlin/annotations.kt","kotlin/annotationsJVM.kt","kotlin/collections/AbstractMutableCollection.kt","kotlin/collections/AbstractMutableList.kt","kotlin/collections/AbstractMutableMap.kt","kotlin/collections/AbstractMutableSet.kt","kotlin/collections/ArrayList.kt","kotlin/collections/ArraySorting.kt","kotlin/collections/ArraysJs.kt","kotlin/collections/EqualityComparator.kt","kotlin/collections/HashMap.kt","kotlin/collections/HashSet.kt","kotlin/collections/InternalHashMap.kt","kotlin/collections/InternalMap.kt","kotlin/collections/InternalStringMap.kt","kotlin/collections/LinkedHashMap.kt","kotlin/collections/LinkedHashSet.kt","kotlin/concurrent.kt","kotlin/console.kt","kotlin/coroutines/SafeContinuationJs.kt","kotlin/coroutines/cancellation/CancellationException.kt","kotlin/coroutines/js/internal/EmptyContinuation.kt","kotlin/date.kt","kotlin/dom/Builders.kt","kotlin/dom/Classes.kt","kotlin/dom/Dom.kt","kotlin/dom/EventListener.kt","kotlin/dom/ItemArrayLike.kt","kotlin/dom/Mutations.kt","kotlin/dynamic.kt","kotlin/exceptionUtils.kt","kotlin/grouping.kt","collections/Grouping.kt","kotlin/js.math.kt","kotlin/json.kt","kotlin/math.kt","kotlin/numbers.kt","kotlin/promise.kt","kotlin/random/PlatformRandom.kt","kotlin/reflect/AssociatedObjects.kt","kotlin/reflect/JsClass.kt","kotlin/reflect/KClassImpl.kt","kotlin/reflect/KClassesImpl.kt","kotlin/reflect/KTypeHelpers.kt","kotlin/reflect/KTypeImpl.kt","kotlin/reflect/KTypeParameterImpl.kt","kotlin/reflect/primitives.kt","kotlin/reflect/reflection.kt","kotlin/regexp.kt","kotlin/sequence.kt","kotlin/text/CharacterCodingExceptionJs.kt","kotlin/text/StringBuilderJs.kt","kotlin/text/char.kt","kotlin/text/numberConversions.kt","kotlin/text/regex.kt","kotlin/text/stringsCode.kt","kotlin/text/utf8Encoding.kt","kotlin/throwableExtensions.kt","kotlin/time/DurationUnit.kt","kotlin/time/MonoTimeSource.kt","kotlin/time/formatToDecimals.kt","kotlinx/dom/Builders.kt","kotlinx/dom/Classes.kt","text/regex/RegexExtensions.kt","text/StringBuilder.kt","kotlinx/dom/Dom.kt","kotlinx/dom/Mutations.kt","org.w3c/deprecated.kt","org.w3c/org.khronos.webgl.kt","org.w3c/org.w3c.dom.clipboard.kt","org.w3c/org.w3c.dom.css.kt","org.w3c/org.w3c.dom.encryptedmedia.kt","org.w3c/org.w3c.dom.events.kt","org.w3c/org.w3c.dom.kt","org.w
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3c/org.w3c.fetch.kt", "org.w3c/org.w3c.dom.mediacapture.kt", "org.w3c/org.w3c.dom.mediasource.kt", "org.w3c/org.w3c.dom.pointerevents.kt", "org.w3c/org.w3c.dom.svg.kt", "org.w3c/org.w3c.files.kt", "org.w3c/org.w3c.notification.s.kt", "org.w3c/org.w3c.workers.kt", "org.w3c/org.w3c.xhr.kt", "annotations/Experimental.kt", "annotations/ExperimentalStdlibApi.kt", "annotations/Inference.kt", "annotations/Multiplatform.kt", "annotations/OptIn.kt", "collections/AbstractCollection.kt", "collections/AbstractIterator.kt", "collections/AbstractList.kt", "collections/AbstractMap.kt", "collections/AbstractSet.kt", "collections/ArrayDeque.kt", "collections/Arrays.kt", "collections/IndexedValue.kt", "collections/MapAccessors.kt", "collections/MapWithDefault.kt", "collections/MutableCollections.kt", "collections/ReversedViews.kt", "collections/SequenceBuilder.kt", "collections/SlidingWindow.kt", "collections/UArraySorting.kt", "contracts/ContractBuilder.kt", "coroutines/ContinuationInterceptor.kt", "coroutines/CoroutineContext.kt", "coroutines/CoroutineContextImpl.kt", "coroutines/intrinsics/Intrinsics.kt", "experimental/bitwiseOperations.kt", "experimental/inferenceMarker.kt", "internal/Annotations.kt", "properties/Delegates.kt", "properties/Interfaces.kt", "properties/ObservableProperty.kt", "properties/PropertyReferenceDelegates.kt", "random/Random.kt", "random/URandom.kt", "random/XorWowRandom.kt", "ranges/Ranges.kt", "reflect/KClasses.kt", "reflect/KTypeProjection.kt", "reflect/KVariance.kt", "reflect/typeOf.kt", "text/Appendable.kt", "text/Char.kt", "text/Indent.kt", "text/Typography.kt", "text/regex/MatchResult.kt", "time/Duration.kt", "time/DurationUnit.kt", "time/ExperimentalTime.kt", "time/TimeSource.kt", "time/TimeSources.kt", "time/measureTime.kt", "util/DeepRecursive.kt", "util/HashCode.kt", "util/KotlinVersion.kt", "util/Lateinit.kt", "util/Lazy.kt", "util/Numbers.kt", "util/Suspend.kt", "util/Tuples.kt", "kotlin/UIntRange.kt", "kotlin/UIterators.kt", "kotlin/ULongRange.kt", "kotlin/UMath.kt", "kotlin/UNumbers.kt", "kotlin/UProgressionUtil.kt", "kotlin/UStrings.kt", "kotlin/annotations/Unsigned.kt", "kotlin/MathH.kt"], "sourcesContent": ["(function (root, factory) {\n if (typeof define === 'function' && define.amd) {\n define('kotlin', ['exports'], factory);\n }\n else if (typeof exports === 'object') {\n factory(module.exports);\n }\n else {\n root.kotlin = {};\n factory(root.kotlin);\n }\n})(this, function (Kotlin) {\n var \_ = Kotlin;\n\n insertContent();\n});\n", "/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n\*/\n\nKotlin.isArray = function (a) {\n return (Array.isArray(a) || a instanceof Int8Array) && a.\$type\$ ===\n \"BooleanArray\";\n};\n\nKotlin.isByteArray = function (a) {\n return a instanceof Int8Array && a.\$type\$ !==\n \"BooleanArray\";\n};\n\nKotlin.isShortArray = function (a) {\n return a instanceof\n Int16Array;\n};\n\nKotlin.isCharArray = function (a) {\n return a instanceof Uint16Array && a.\$type\$ ===\n \"CharArray\";\n};\n\nKotlin.isIntArray = function (a) {\n return a instanceof\n Int32Array;\n};\n\nKotlin.isFloatArray = function (a) {\n return a instanceof\n Float32Array;\n};\n\nKotlin.isDoubleArray = function (a) {\n return a instanceof\n Float64Array;\n};\n\nKotlin.isLongArray = function (a) {\n return Array.isArray(a) && a.\$type\$ ===\n \"LongArray\";\n};\n\nKotlin.isArray = function (a) {\n return Array.isArray(a) &&\n !a.\$type\$;\n};\n\nKotlin.isArrayish = function (a) {\n return Array.isArray(a) ||\n ArrayBuffer.isView(a);\n};\n\nKotlin.arrayToString = function (a) {\n if (a === null) return \"null\";\n\n var toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;\n return \"[\" +\n Array.prototype.map.call(a, function(e) { return toString(e); }).join(\", \") + \"]\";\n};\n\nKotlin.arrayDeepToString =\n function (arr) {\n return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\n};\n\nKotlin.arrayEquals =\n function (a, b) {\n if (a === b) {\n return true;\n }\n if (a === null || b === null || !Kotlin.isArrayish(b) ||\n a.length !== b.length) {\n return false;\n }\n\n for (var i = 0, n = a.length; i < n; i++) {\n if\n (!Kotlin.equals(a[i], b[i])) {\n return false;\n }\n }\n return true;\n};\n\nKotlin.arrayDeepEquals =\n function (a, b) {\n return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);\n};\n\nKotlin.arrayHashCode =\n function (arr) {\n if (arr === null) return 0;\n var result = 1;\n for (var i = 0, n = arr.length; i < n; i++) {\n result = ((31 \* result | 0) + Kotlin.hashCode(arr[i]))\n | 0;\n }\n return result;\n};\n\nKotlin.arrayDeepHashCode = function (arr) {\n return\n Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);\n};\n\nKotlin.primitiveArraySort = function (array) {\n array.sort(Kotlin.doubleCompareTo);\n};\n", "/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming

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Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.getCallableRef = function(name, f) {\n  f.callableName = name;\n  return
f;\n};\n\nKotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {\n  getter.get = getter;\n
getter.set = setter;\n  getter.callableName = name;\n  return getPropertyRefClass(getter, setter,
propertyRefClassMetadataCache[paramCount]);\n};\n\nfunction getPropertyRefClass(obj, setter, cache) {\n
obj.$metadata$ = getPropertyRefMetadata(typeof setter === "function" ? cache.mutable : cache.immutable);\n
  obj.constructor = obj;\n  return obj;\n}\n\nvar propertyRefClassMetadataCache = [\n  {\n    mutable: { value:
null, implementedInterface: function () {\n      return Kotlin.kotlin.reflect.KMutableProperty0 }\n    },\n
immutable: { value: null, implementedInterface: function () {\n      return Kotlin.kotlin.reflect.KProperty0 }\n
  } }\n  ],\n  {\n    mutable: { value: null, implementedInterface: function () {\n      return
Kotlin.kotlin.reflect.KMutableProperty1 }\n    },\n    immutable: { value: null, implementedInterface: function
() {\n      return Kotlin.kotlin.reflect.KProperty1 }\n    } }\n  ];\n\nfunction getPropertyRefMetadata(cache)
{\n  if (cache.value === null) {\n    cache.value = {\n      interfaces: [cache.implementedInterface()],\n
baseClass: null,\n      functions: {},\n      properties: {},\n      types: {},\n      staticMembers: {} }\n
  };\n
  }\n  return cache.value;\n}\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.toShort = function (a) {\n  return (a & 0xFFFF) << 16 >>
16;\n};\n\nKotlin.toByte = function (a) {\n  return (a & 0xFF) << 24 >> 24;\n};\n\nKotlin.toChar = function (a) {\n
return a & 0xFFFF;\n};\n\nKotlin.numberToLong = function (a) {\n  return a instanceof Kotlin.Long ? a :
Kotlin.Long.fromNumber(a);\n};\n\nKotlin.numberToInt = function (a) {\n  return a instanceof Kotlin.Long ?
a.toInt() : Kotlin.doubleToInt(a);\n};\n\nKotlin.numberToShort = function (a) {\n  return
Kotlin.toShort(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToByte = function (a) {\n  return
Kotlin.toByte(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToDouble = function (a) {\n  return
+a;\n};\n\nKotlin.numberToChar = function (a) {\n  return
Kotlin.toChar(Kotlin.numberToInt(a));\n};\n\nKotlin.doubleToInt
= function(a) {\n  if (a > 2147483647) return 2147483647;\n  if (a < -2147483648) return -2147483648;\n
return a | 0;\n};\n\nKotlin.toBoxedChar = function (a) {\n  if (a == null) return a;\n  if (a instanceof
Kotlin.BoxedChar) return a;\n  return new Kotlin.BoxedChar(a);\n};\n\nKotlin.unboxChar = function(a) {\n  if (a
== null) return a;\n  return Kotlin.toChar(a);\n};\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\nKotlin.equals = function (obj1, obj2) {\n  if (obj1 == null) {\n
return obj2 == null;\n  }\n\n  if (obj2 == null) {\n    return false;\n  }\n\n  if (obj1 !== obj2) {\n    return
obj2 !== obj2;\n  }\n\n  if (typeof obj1 === "object" && typeof obj1.equals === "function") {\n    return
obj1.equals(obj2);\n
  }\n\n  if (typeof obj1 === "number" && typeof obj2 === "number") {\n    return obj1 === obj2 && (obj1
!== 0 || 1 / obj1 === 1 / obj2)\n  }\n\n  return obj1 === obj2;\n};\n\nKotlin.hashCode = function (obj) {\n  if (obj
== null) {\n    return 0;\n  }\n\n  var objType = typeof obj;\n  if ("object" === objType) {\n    return
"function" === typeof obj.hashCode ? obj.hashCode() : getObjectHashCode(obj);\n  }\n\n  if ("function" ===
objType) {\n    return getObjectHashCode(obj);\n  }\n\n  if ("number" === objType) {\n    return
Kotlin.numberHashCode(obj);\n  }\n\n  if ("boolean" === objType) {\n    return Number(obj)\n  }\n\n  var str
= String(obj);\n  return getStringHashCode(str);\n};\n\nKotlin.toString = function (o) {\n  if (o == null) {\n
return "null";\n  }\n  else if (Kotlin.isArrayish(o)) {\n    return "[...]";\n  }\n  else {\n    return
o.toString();\n  }\n};\n\n/** @const
*\nvar POW_2_32 = 4294967296;\n// TODO: consider switching to Symbol type once we are on ES6.\n/**
@const *\nvar OBJECT_HASH_CODE_PROPERTY_NAME = "kotlinHashCodeValue$";\n\nfunction
getObjectHashCode(obj) {\n  if (!(OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {\n    var hash =
(Math.random() * POW_2_32) | 0; // Make 32-bit signed integer.\n    Object.defineProperty(obj,

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OBJECT_HASH_CODE_PROPERTY_NAME, { value: hash, enumerable: false });\n } \n return
obj[OBJECT_HASH_CODE_PROPERTY_NAME];\n}\n\nfunction getStringHashCode(str) {\n  var hash = 0;\n  for (var i = 0; i < str.length; i++) {\n    var code = str.charCodeAt(i);\n    hash = (hash * 31 + code) | 0; // Keep
it 32-bit.\n  }\n  return hash;\n}\n\nKotlin.identityHashCode = getObjectHashCode;\n", "/*\n * Copyright 2010-
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the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n// Copyright 2009 The Closure Library Authors. All Rights Reserved.\n/\n// Licensed under the Apache
License, Version 2.0 (the "License");\n// you may not use this file except in compliance with the License.\n// You
may obtain a copy of the License at\n/\n// http://www.apache.org/licenses/LICENSE-2.0\n/\n// Unless required
by applicable law or agreed to in writing, software\n// distributed under the License is distributed on an "AS-IS"
BASIS,\n// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n\n/**\n *
Constructs a 64-bit two's-complement integer, given its low and high 32-bit\n * values as *signed* integers. See the
from* functions below for more\n * convenient ways of constructing Longs.\n * \n * The internal representation of a
long is the two given signed, 32-bit values.\n * We use 32-bit pieces because these are the size of integers on
which\n * Javascript performs bit-operations. For operations like addition and\n * multiplication,
we split each number into 16-bit pieces, which can easily be\n * multiplied within Javascript's floating-point
representation without overflow\n * or change in sign.\n * \n * In the algorithms below, we frequently reduce the
negative case to the\n * positive case by negating the input(s) and then post-processing the result.\n * Note that we
must ALWAYS check specially whether those values are MIN_VALUE\n * (-2^63) because -MIN_VALUE ==
MIN_VALUE (since 2^63 cannot be represented as\n * a positive number, it overflows back into a negative). Not
handling this\n * case would often result in infinite recursion.\n * \n * @param {number} low The low (signed) 32
bits of the long.\n * @param {number} high The high (signed) 32 bits of the long.\n * @constructor\n * @final\n
*/\nKotlin.Long = function(low, high) {\n  /**\n   * @type {number}\n   * @private\n   */\n  this.low_ = low | 0; //
force into 32 signed bits.\n  /**\n   * @type {number}\n   * @private\n   */\n  this.high_ = high | 0;\n
  // force into 32 signed bits.\n};\n\nKotlin.Long.$metadata$ = {\n  kind: "class",\n  simpleName: "Long",\n
interfaces: []\n};\n\n// NOTE: Common constant values ZERO, ONE, NEG_ONE, etc. are defined below the\n//
from* methods on which they depend.\n\n/**\n * A cache of the Long representations of small integer values.\n *
@type {!Object}\n * @private\n */\nKotlin.Long.IntCache_ = {};\n\n/**\n * Returns a Long representing the
given (32-bit) integer value.\n * @param {number} value The 32-bit integer in question.\n * @return
{!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromInt = function(value) {\n  if (-128 <= value
&& value < 128) {\n    var cachedObj = Kotlin.Long.IntCache_[value];\n    if (cachedObj) {\n      return
cachedObj;\n    }\n    var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);\n    if (-128 <= value && value <
128) {\n      Kotlin.Long.IntCache_[value] = obj;\n    }\n    return obj;\n};\n\n/**\n * Converts this number value to
`Long`.\n * \n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is `NaN`,
`Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`,\n * `Long.MAX_VALUE` if it's bigger than
`Long.MAX_VALUE`.\n * @param {number} value The number in question.\n * @return {!Kotlin.Long} The
corresponding Long value.\n */\nKotlin.Long.fromNumber = function(value) {\n  if (isNaN(value)) {\n    return
Kotlin.Long.ZERO;\n  } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {\n    return
Kotlin.Long.MIN_VALUE;\n  } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {\n    return
Kotlin.Long.MAX_VALUE;\n  } else if (value < 0) {\n    return Kotlin.Long.fromNumber(-value).negate();\n  }
else {\n    return new Kotlin.Long(\n      (value % Kotlin.Long.TWO_PWR_32_DBL_) | 0,\n      (value /
Kotlin.Long.TWO_PWR_32_DBL_) | 0);\n  }\n};\n\n/**\n * Returns a Long representing the 64-bit integer that
comes by concatenating\n * the given high and low bits. Each is assumed to use
32 bits.\n * @param {number} lowBits The low 32-bits.\n * @param {number} highBits The high 32-bits.\n *
@return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromBits = function(lowBits, highBits)
{\n  return new Kotlin.Long(lowBits, highBits);\n};\n\n/**\n * Returns a Long representation of the given string,
written using the given\n * radix.\n * @param {string} str The textual representation of the Long.\n * @param

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{number=} opt_radix The radix in which the text is written.\n * @return {!Kotlin.Long} The corresponding Long
value.\n *\nKotlin.Long.fromString = function(str, opt_radix) {\n if (str.length == 0) {\n throw Error('number
format error: empty string');\n }\n\n var radix = opt_radix || 10;\n if (radix < 2 || 36 < radix) {\n throw
Error('radix out of range: ' + radix);\n }\n\n if (str.charAt(0) == '-') {\n return
Kotlin.Long.fromString(str.substring(1), radix).negate();\n } else if (str.indexOf('.') >= 0) {\n throw Error('number
format
error: interior \'-\' character: ' + str);\n }\n\n // Do several (8) digits each time through the loop, so as to\n //
minimize the calls to the very expensive emulated div.\n var radixToPower =
Kotlin.Long.fromNumber(Math.pow(radix, 8));\n\n var result = Kotlin.Long.ZERO;\n for (var i = 0; i < str.length;
i += 8) {\n var size = Math.min(8, str.length - i);\n var value = parseInt(str.substring(i, i + size), radix);\n if
(size < 8) {\n var power = Kotlin.Long.fromNumber(Math.pow(radix, size));\n result =
result.multiply(power).add(Kotlin.Long.fromNumber(value));\n } else {\n result =
result.multiply(radixToPower);\n result = result.add(Kotlin.Long.fromNumber(value));\n }\n }\n return
result;\n};\n\n\n// NOTE: the compiler should inline these constant values below and then remove\n// these
variables, so there should be no runtime penalty for these.\n\n\n**\n * Number used repeated below in calculations.
This must appear before the\n * first call
to any from* function below.\n * @type {number}\n * @private\n *\nKotlin.Long.TWO_PWR_16_DBL_ = 1 <<
16;\n\n\n**\n * @type {number}\n * @private\n *\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\n\n\n**\n *
@type {number}\n * @private\n *\nKotlin.Long.TWO_PWR_32_DBL_ =\n Kotlin.Long.TWO_PWR_16_DBL_
* Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_31_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\n\n**\n * @type
{number}\n * @private\n *\nKotlin.Long.TWO_PWR_48_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_64_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_32_DBL_;\n\n\n**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_63_DBL_ =\n Kotlin.Long.TWO_PWR_64_DBL_ / 2;\n\n\n** @type
{!Kotlin.Long} *\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\n\n\n** @type {!Kotlin.Long}
*\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\n\n\n**
@type {!Kotlin.Long} *\nKotlin.Long.NEG_ONE = Kotlin.Long.fromInt(-1);\n\n\n** @type {!Kotlin.Long}
*\nKotlin.Long.MAX_VALUE =\n Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\n\n\n** @type
{!Kotlin.Long} *\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\n\n\n**\n * @type
{!Kotlin.Long}\n * @private\n *\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1 << 24);\n\n\n**
@return {number} The value, assuming it is a 32-bit integer. *\nKotlin.Long.prototype.toInt = function() {\n
return this.low_;\n};\n\n\n** @return {number} The closest floating-point representation to this value.
*\nKotlin.Long.prototype.toNumber = function() {\n return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +\n
this.getLowBitsUnsigned();\n};\n\n\n** @return {number} The 32-bit hashCode of this value.
*\nKotlin.Long.prototype.hashCode = function() {\n return this.high_ ^ this.low_;\n};\n\n\n**\n * @param
{number=} opt_radix The radix in which the text should be written.\n
* @return {string} The textual representation of this value.\n *\n @override\n *\nKotlin.Long.prototype.toString =
function(opt_radix) {\n var radix = opt_radix || 10;\n if (radix < 2 || 36 < radix) {\n throw Error('radix out of
range: ' + radix);\n }\n\n if (this.isZero()) {\n return '0';\n }\n\n if (this.isNegative()) {\n if
(this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n // We need to change the Long value before it can be negated,
so we remove\n // the bottom-most digit in this base and then recurse to do the rest.\n var radixLong =
Kotlin.Long.fromNumber(radix);\n var div = this.div(radixLong);\n var rem =
div.multiply(radixLong).subtract(this);\n return div.toString(radix) + rem.toInt().toString(radix);\n } else {\n
return '-' + this.negate().toString(radix);\n }\n }\n\n // Do several (6) digits each time through the loop, so as to\n
// minimize the calls to the very expensive emulated div.\n var radixToPower =
Kotlin.Long.fromNumber(Math.pow(radix,

```

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6));\n\n var rem = this;\n var result = ";\n while (true) {\n   var remDiv = rem.div(radixToPower);\n   var intval = rem.subtract(remDiv.multiply(radixToPower)).toInt();\n   var digits = intval.toString(radix);\n   rem = remDiv;\n   if (rem.isZero()) {\n     return digits + result;\n   } else {\n     while (digits.length < 6) {\n       digits = '0' + digits;\n     }\n     result = " + digits + result;\n   }\n }\n};\n\n\n/** @return {number} The high 32-bits as a signed value. */\nKotlin.Long.prototype.getHighBits = function() {\n  return this.high_;\n};\n\n\n/** @return {number} The low 32-bits as a signed value. */\nKotlin.Long.prototype.getLowBits = function() {\n  return this.low_;\n};\n\n\n/** @return {number} The low 32-bits as an unsigned value. */\nKotlin.Long.prototype.getLowBitsUnsigned = function() {\n  return (this.low_ >= 0) ?\n    this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;\n};\n\n\n/** @return {number} Returns the number of bits needed to represent the absolute value of this Long. */\nKotlin.Long.prototype.getNumBitsAbs = function() {\n  if (this.isNegative()) {\n    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n      return 64;\n    } else {\n      return this.negate().getNumBitsAbs();\n    }\n  } else {\n    var val = this.high_ != 0 ? this.high_ : this.low_;\n    for (var bit = 31; bit > 0; bit--) {\n      if ((val & (1 << bit)) != 0) {\n        break;\n      }\n    }\n    return this.high_ != 0 ? bit + 33 : bit + 1;\n  }\n};\n\n\n/** @return {boolean} Whether this value is zero. */\nKotlin.Long.prototype.isZero = function() {\n  return this.high_ == 0 && this.low_ == 0;\n};\n\n\n/** @return {boolean} Whether this value is negative. */\nKotlin.Long.prototype.isNegative = function() {\n  return this.high_ < 0;\n};\n\n\n/** @return {boolean} Whether this value is odd. */\nKotlin.Long.prototype.isOdd = function() {\n  return (this.low_ & 1) == 1;\n};\n\n\n/** @param {Kotlin.Long} other Long to compare against. */\n/* @return {boolean} Whether this Long equals the other. */\nKotlin.Long.prototype.equalsLong = function(other) {\n  return (this.high_ == other.high_) && (this.low_ == other.low_);\n};\n\n\n/** @param {Kotlin.Long} other Long to compare against. */\n/* @return {boolean} Whether this Long does not equal the other. */\nKotlin.Long.prototype.notEqualsLong = function(other) {\n  return (this.high_ != other.high_) || (this.low_ != other.low_);\n};\n\n\n/** @param {Kotlin.Long} other Long to compare against. */\n/* @return {boolean} Whether this Long is less than the other. */\nKotlin.Long.prototype.lessThan = function(other) {\n  return this.compare(other) < 0;\n};\n\n\n/** @param {Kotlin.Long} other Long to compare against. */\n/* @return {boolean} Whether this Long is less than or equal to the other. */\nKotlin.Long.prototype.lessThanOrEqual = function(other) {\n  return this.compare(other) <= 0;\n};\n\n\n/** @param {Kotlin.Long} other Long to compare against. */\n/* @return {boolean} Whether this Long is greater than the other. */\nKotlin.Long.prototype.greaterThan = function(other) {\n  return this.compare(other) > 0;\n};\n\n\n/** @param {Kotlin.Long} other Long to compare against. */\n/* @return {boolean} Whether this Long is greater than or equal to the other. */\nKotlin.Long.prototype.greaterThanOrEqual = function(other) {\n  return this.compare(other) >= 0;\n};\n\n\n/** @param {Kotlin.Long} other Long to compare against. */\n/* @return {number} 0 if they are the same, 1 if the this is greater, and -1 if the given one is greater. */\nKotlin.Long.prototype.compare = function(other) {\n  if (this.equalsLong(other)) {\n    return 0;\n  }\n  var thisNeg = this.isNegative();\n  var otherNeg = other.isNegative();\n  if (thisNeg && !otherNeg) {\n    return -1;\n  }\n  if (!thisNeg && otherNeg) {\n    return 1;\n  }\n  // at this point, the signs are the same, so subtraction will not overflow\n  if (this.subtract(other).isNegative()) {\n    return -1;\n  } else {\n    return 1;\n  }\n};\n\n\n/** @return {!Kotlin.Long} The negation of this value. */\nKotlin.Long.prototype.negate = function() {\n  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n    return Kotlin.Long.MIN_VALUE;\n  } else {\n    return this.not().add(Kotlin.Long.ONE);\n  }\n};\n\n\n/** @param {Kotlin.Long} other Long to add to this one. */\n/* @return {!Kotlin.Long} The sum of this and the given Long. */\nKotlin.Long.prototype.add = function(other) {\n  // Divide each number into 4 chunks of 16 bits, and then sum the chunks.\n  var a48 = this.high_ >>> 16;\n  var a32 = this.high_ & 0xFFFF;\n  var a16 = this.low_ >>> 16;\n  var a00 = this.low_ & 0xFFFF;\n  var b48 = other.high_ >>> 16;\n  var b32 = other.high_ & 0xFFFF;\n  var b16 = other.low_ >>> 16;\n  var b00 = other.low_ & 0xFFFF;\n  var c48 = 0, c32 = 0, c16 =

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0, c00 = 0;\n c00 += a00 + b00;\n c16 += c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 + b16;\n c32 += c16
>>> 16;\n c16 &= 0xFFFF;\n c32 += a32 + b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 + b48;\n
c48 &= 0xFFFF;\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n\n/**\n * Returns the
difference of this and the given Long.\n * @param {Kotlin.Long} other Long to subtract from this.\n * @return
{!Kotlin.Long} The difference of this and the given Long.\n */\nKotlin.Long.prototype.subtract = function(other)
{\n return this.add(other.negate());\n};\n\n\n/**\n * Returns the product of this and the given long.\n * @param
{Kotlin.Long} other Long to multiply with this.\n * @return {!Kotlin.Long} The product of this and the other.\n
*/\nKotlin.Long.prototype.multiply = function(other) {\n if (this.isZero()) {\n return Kotlin.Long.ZERO;\n } else
if (other.isZero()) {\n return Kotlin.Long.ZERO;\n }\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE))
{\n return other.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\n } else if
(other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return this.isOdd() ? Kotlin.Long.MIN_VALUE :
Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n if (other.isNegative()) {\n return
this.negate().multiply(other.negate());\n } else {\n return this.negate().multiply(other).negate();\n }
}\n } else if
(other.isNegative()) {\n return this.multiply(other.negate()).negate();\n }\n\n // If both longs are small, use float
multiplication\n if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &&\n
other.lessThan(Kotlin.Long.TWO_PWR_24_)) {\n return Kotlin.Long.fromNumber(this.toNumber() *
other.toNumber());\n }\n\n // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.\n // We can
skip products that would overflow.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 =
this.low_ >>> 16;\n var a00 = this.low_ & 0xFFFF;\n\n var b48
= other.high_ >>> 16;\n var b32 = other.high_ & 0xFFFF;\n var b16 = other.low_ >>> 16;\n var b00 = other.low_
& 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\n c00 += a00 * b00;\n c16 += c00 >>> 16;\n c00 &=
0xFFFF;\n c16 += a16 * b00;\n c32 += c16 >>> 16;\n c16 &= 0xFFFF;\n c16 += a00 * b16;\n c32 += c16 >>>
16;\n c16 &= 0xFFFF;\n c32 += a32 * b00;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c32 += a16 * b16;\n c48
+= c32 >>> 16;\n c32 &= 0xFFFF;\n c32 += a00 * b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48
* b00 + a32 * b16 + a16 * b32 + a00 * b48;\n c48 &= 0xFFFF;\n return Kotlin.Long.fromBits((c16 << 16) | c00,
(c48 << 16) | c32);\n};\n\n\n/**\n * Returns this Long divided by the given one.\n * @param {Kotlin.Long} other
Long by which to divide.\n * @return {!Kotlin.Long} This Long divided by the given one.\n
*/\nKotlin.Long.prototype.div = function(other) {\n if (other.isZero()) {\n throw Error('division by zero');\n } else
if (this.isZero())
{\n return Kotlin.Long.ZERO;\n }\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n if
(other.equalsLong(Kotlin.Long.ONE) ||\n other.equalsLong(Kotlin.Long.NEG_ONE)) {\n return
Kotlin.Long.MIN_VALUE; // recall that -MIN_VALUE == MIN_VALUE\n } else if
(other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.ONE;\n } else {\n // At this point,
we have |other| >= 2, so |this/other| < |MIN_VALUE|.\n var halfThis = this.shiftRight(1);\n var approx =
halfThis.div(other).shiftLeft(1);\n if (approx.equalsLong(Kotlin.Long.ZERO)) {\n return other.isNegative() ?
Kotlin.Long.ONE : Kotlin.Long.NEG_ONE;\n } else {\n var rem = this.subtract(other.multiply(approx));\n
var result = approx.add(rem.div(other));\n return result;\n }\n }\n } else if
(other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n
if (other.isNegative()) {\n return
this.negate().div(other.negate());\n } else {\n return this.negate().div(other).negate();\n }\n } else if
(other.isNegative()) {\n return this.div(other.negate()).negate();\n }\n\n // Repeat the following until the
remainder is less than other: find a\n // floating-point that approximates remainder / other *from below*, add this\n
// into the result, and subtract it from the remainder. It is critical that\n // the approximate value is less than or equal
to the real value so that the\n // remainder never becomes negative.\n var res = Kotlin.Long.ZERO;\n var rem =
this;\n while (rem.greaterThanOrEqual(other)) {\n // Approximate the result of division. This may be a little
greater or\n // smaller than the actual value.\n var approx = Math.max(1, Math.floor(rem.toNumber() /
other.toNumber()));\n\n // We will tweak the approximate result by changing it in the 48-th digit or\n // the
smallest non-fractional digit, whichever is larger.\n var log2 =

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= function() {\n  return this.toNumber();\n};\n\nKotlin.Long.prototype.unaryPlus = function() {\n  return
this;\n};\n\nKotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;\n\nKotlin.Long.prototype.inv =
Kotlin.Long.prototype.not;\n\nKotlin.Long.prototype.rangeTo = function (other) {\n  return new
Kotlin.kotlin.ranges.LongRange(this, other);\n};", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *^\n/*\n * @param {string} id\n * @param {Object} declaration\n
*^\n\nKotlin.defineModule = function (id, declaration) {\n};\n\nKotlin.defineInlineFunction = function(tag, fun) {\n
return fun;\n};\n\nKotlin.wrapFunction = function(fun) {\n  var f = function() {\n    f = fun();\n    return
f.apply(this, arguments);\n  };\n  return function() {\n    return f.apply(this, arguments);\n
};\n};\n\nKotlin.isTypeOf
= function(type) {\n  return function (object) {\n    return typeof object === type;\n
};\n};\n\nKotlin.isInstanceOf = function (klass) {\n  return function (object) {\n    return Kotlin.isType(object,
klass);\n  };\n};\n\nKotlin.orNull = function (fn) {\n  return function (object) {\n    return object == null ||
fn(object);\n  };\n};\n\nKotlin.andPredicate = function (a, b) {\n  return function (object) {\n    return a(object)
&& b(object);\n  };\n};\n\nKotlin.kotlinModuleMetadata = function (abiVersion, moduleName, data)
{\n};\n\nKotlin.suspendCall = function(value) {\n  return value;\n};\n\nKotlin.coroutineResult = function(qualifier)
{\n  throwMarkerError();\n};\n\nKotlin.coroutineController = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.coroutineReceiver = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.setCoroutineResult = function(value, qualifier) {\n
throwMarkerError();\n};\n\nKotlin.getReifiedTypeParameterKType
= function(typeParameter) {\n  throwMarkerError();\n};\n\nfunction throwMarkerError() {\n  throw new Error(\n
  \"This marker function should never been called. \" +\n    \"Looks like compiler did not eliminate it properly.
\n\" +\n    \"Please, report an issue if you caught this exception.\");\n}\n\nKotlin.getFunctionById = function(id,
defaultValue) {\n  return function() {\n    return defaultValue;\n  };\n};", "/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n *^\n\nKotlin.compareTo = function (a, b) {\n  var
typeA = typeof a;\n  if (typeA === \"number\") {\n    if (typeof b === \"number\") {\n      return
Kotlin.doubleCompareTo(a, b);\n    }\n    return Kotlin.primitiveCompareTo(a, b);\n  }\n  if (typeA ===
\"string\" || typeA === \"boolean\") {\n    return
Kotlin.primitiveCompareTo(a, b);\n  }\n  return a.compareTo_11rb$(b);\n};\n\nKotlin.primitiveCompareTo =
function (a, b) {\n  return a < b ? -1 : a > b ? 1 : 0;\n};\n\nKotlin.doubleCompareTo = function (a, b) {\n  if (a < b)
return -1;\n  if (a > b) return 1;\n\n  if (a === b) {\n    if (a !== 0) return 0;\n\n    var ia = 1 / a;\n    return ia
=== 1 / b ? 0 : (ia < 0 ? -1 : 1);\n  }\n  return a !== a ? (b !== b ? 0 : 1) : -1;\n};\n\nKotlin.charInc = function
(value) {\n  return Kotlin.toChar(value+1);\n};\n\nKotlin.charDec = function (value) {\n  return
Kotlin.toChar(value-1);\n};\n\nKotlin.imul = Math.imul || imul;\n\nKotlin.imulEmulated = imul;\n\nfunction imul(a,
b) {\n  return ((a & 0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;\n}\n\nfunction() {\n  var buf = new
ArrayBuffer(8);\n  var bufFloat64 = new Float64Array(buf);\n  var bufFloat32 = new Float32Array(buf);\n  var
bufInt32 = new Int32Array(buf);\n  var lowIndex =
0;\n  var highIndex = 1;\n\n  bufFloat64[0] = -1; // bff00000_00000000\n  if (bufInt32[lowIndex] !== 0) {\n
lowIndex = 1;\n  highIndex = 0;\n  }\n\n  Kotlin.doubleToBits = function(value) {\n  return
Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);\n  };\n\n  Kotlin.doubleToRawBits = function(value) {\n
bufFloat64[0] = value;\n  return Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);\n  };\n\n  Kotlin.doubleFromBits = function(value) {\n  bufInt32[lowIndex] = value.low_;\n  bufInt32[highIndex] =
value.high_;\n  return bufFloat64[0];\n  };\n\n  Kotlin.floatToBits = function(value) {\n  return
Kotlin.floatToRawBits(isNaN(value) ? NaN : value);\n  };\n\n  Kotlin.floatToRawBits = function(value) {\n
bufFloat32[0] = value;\n  return bufInt32[0];\n  };\n\n  Kotlin.floatFromBits = function(value) {\n
bufInt32[0] = value;\n  return bufFloat32[0];\n  };\n\n  // returns

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Array.prototype.fill\n        });\n        }\n        if (typeof TypedArray.prototype.slice === \"undefined\") {\nObject.defineProperty(TypedArray.prototype, 'slice', {\n        value: typedArraySlice\n        });\n        }\n}\n\n // Patch apply to work with TypedArrays if needed.\n try {\n        (function() {}).apply(null, new\nInt32Array(0))\n } catch (e) {\n        var apply = Function.prototype.apply;\nObject.defineProperty(Function.prototype, 'apply', {\n        value: function(self, array) {\n        return\napply.call(this, self, [].slice.call(array));\n        }\n        });\n        }\n\n // Patch map to work with TypedArrays if needed.\n for (var i = 0; i < arrays.length; ++i) {\n        var TypedArray = arrays[i];\n        if (typeof TypedArray.prototype.map === \"undefined\") {\nObject.defineProperty(TypedArray.prototype, 'map', {\n        value: function(callback, self) {\nreturn [].slice.call(this).map(callback, self);\n        }\n        });\n        }\n}\n\n // Patch sort to work with\nTypedArrays if needed.\n // TODO: consider to remove following function and replace it with\n`Kotlin.doubleCompareTo` (see misc.js)\n var totalOrderComparator = function (a, b) {\n        if (a < b) return -\n1;\n        if (a > b) return 1;\n        if (a === b) {\n        if (a !== 0) return 0;\n\n        var ia = 1 / a;\nreturn ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n        }\n        }\n        return a !== a ? (b !== b ? 0 : 1) : -1\n        };\n        }\n        for (var i =\n0; i < arrays.length;\n        ++i) {\n        var TypedArray = arrays[i];\n        if (typeof TypedArray.prototype.sort === \"undefined\") {\nObject.defineProperty(TypedArray.prototype, 'sort', {\n        value: function(compareFunction) {\nreturn Array.prototype.sort.call(this, compareFunction || totalOrderComparator);\n        }\n        });\n        }\n}\n\n});\n\n\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use\nof this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n*/\n\nKotlin.Kind = {\n        CLASS: \"class\",\n        INTERFACE: \"interface\",\n        OBJECT:\n\n\"object\"\n};\n\nKotlin.callGetter = function (thisObject, klass, propertyName) {\n        var propertyDescriptor =\nObject.getOwnPropertyDescriptor(klass, propertyName);\n        if (propertyDescriptor != null &&\npropertyDescriptor.get != null) {\n        return propertyDescriptor.get.call(thisObject);\n        }\n\n        propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);\n        if\n(propertyDescriptor != null && \"value\" in propertyDescriptor) {\n        return thisObject[propertyName];\n        }\n\n        return Kotlin.callGetter(thisObject, Object.getPrototypeOf(klass), propertyName);\n};\n\nKotlin.callSetter =\nfunction (thisObject, klass, propertyName, value) {\n        var propertyDescriptor =\nObject.getOwnPropertyDescriptor(klass, propertyName);\n        if (propertyDescriptor != null &&\npropertyDescriptor.set != null) {\n        propertyDescriptor.set.call(thisObject, value);\n        return;\n        }\n\n        propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);\n        if (propertyDescriptor !=\nnull && \"value\" in propertyDescriptor) {\n        thisObject[propertyName] = value;\n        return\n        }\n\n        Kotlin.callSetter(thisObject, Object.getPrototypeOf(klass), propertyName, value);\n};\n\nfunction\nisInheritanceFromInterface(ctor, iface) {\n        if (ctor === iface) return true;\n\n        var metadata = ctor.$metadata$;\n        if (metadata != null) {\n        var\ninterfaces = metadata.interfaces;\n        for (var i = 0; i < interfaces.length; i++) {\n        if\n(isInheritanceFromInterface(interfaces[i], iface)) {\n        return true;\n        }\n        }\n        }\n\n        var\nsuperPrototype = ctor.prototype != null ? Object.getPrototypeOf(ctor.prototype) : null;\n        var superConstructor =\nsuperPrototype != null ? superPrototype.constructor : null;\n        return superConstructor != null &&\nisInheritanceFromInterface(superConstructor, iface);\n}\n\n/**\n * @param {*} object\n * @param\n{Function|Object} klass\n * @returns {Boolean}\n */\nKotlin.isType = function (object, klass) {\n        if (klass ===\nObject) {\n        switch (typeof object) {\n        case \"string\":\n        case \"number\":\n        case\n\n\"boolean\":\n        case \"function\":\n        return true;\n        default:\n\n        return object instanceof Object;\n        }\n        }\n\n        if (object == null || klass == null || (typeof object !==\n'object' && typeof object !== 'function')) {\n        return false;\n        }\n\n        if (typeof klass === \"function\" &&\nobject instanceof klass) {\n        return true;\n        }\n\n        var proto = Object.getPrototypeOf(klass);\n        var constructor\n= proto != null ? proto.constructor : null;\n        if (constructor != null && \"$metadata$\" in constructor) {\n        var\nmetadata = constructor.$metadata$;\n        if (metadata.kind === Kotlin.Kind.OBJECT) {\n        return object ===

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class;
    }
}
var classMetadata = class.$metadata;
// In WebKit (JavaScriptCore) for some
interfaces from DOM typeof returns "object", nevertheless they can be used in RHS of instanceof
if
(classMetadata == null) {
    return object instanceof class;
}
if (classMetadata.kind ===
Kotlin.Kind.INTERFACE && object.constructor != null)
{
    return isInheritanceFromInterface(object.constructor, class);
}
return
false;
};
Kotlin.isNumber = function (a) {
    return typeof a == "number" || a instanceof
Kotlin.Long;
};
Kotlin.isChar = function (value) {
    return value instanceof
Kotlin.BoxedChar;
};
Kotlin.isComparable = function (value) {
    var type = typeof value;
    return type
=== "string" ||
    type === "boolean" ||
    Kotlin.isNumber(value) ||
    Kotlin.isType(value,
Kotlin.kotlin.Comparable);
};
Kotlin.isCharSequence = function (value) {
    return typeof value === "string"
|| Kotlin.isType(value, Kotlin.kotlin.CharSequence);
};
}
/*
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.
 */
package kotlin
@PublishedApi
external
internal fun <T> Array(size: Int): Array<T>
@JsName("newArray")
fun <T> newArray(size: Int, initialValue:
T) = fillArrayVal(Array<T>(size), initialValue)
@JsName("newArrayF")
inline fun <T> arrayWithFun(size: Int,
init: (Int) -> T) = fillArrayFun(Array<T>(size), init)
@JsName("fillArray")
inline fun <T> fillArrayFun(array:
Array<T>, init: (Int) -> T): Array<T> {
    for (i in 0..array.size - 1) {
        array[i] = init(i)
    }
    return
array
}
@JsName("booleanArray")
fun booleanArray(size: Int, init: dynamic): Array<Boolean> {
    val
result: dynamic = Array<Boolean>(size)
    result.$type$ = "BooleanArray"
    return when (init) {
        null,
true -> fillArrayVal(result, false)
        false -> result
        else -> fillArrayFun<Boolean>(result, init)
    }
}
@JsName("booleanArrayF")
inline fun booleanArrayWithFun(size: Int, init: (Int) -> Boolean):
Array<Boolean> = fillArrayFun(booleanArray(size, false),
init)
@JsName("charArray")
@Suppress("UNUSED_PARAMETER")
fun
charArray(size: Int, init: dynamic): Array<Char> {
    val result = js("new Uint16Array(size)")
    result.$type$
= "CharArray"
    return when (init) {
        null, true, false -> result // For consistency
        else ->
fillArrayFun<Char>(result, init)
    }
}
@JsName("charArrayF")
inline fun charArrayWithFun(size: Int, init:
(Int) -> Char): Array<Char> {
    val array = charArray(size, null)
    for (i in 0..array.size - 1) {
        @Suppress("UNUSED_VARIABLE") // used in js block
        val value = init(i)
        js("array[i] = value;")
    }
    return array
}
@JsName("untypedCharArrayF")
inline fun untypedCharArrayWithFun(size: Int, init:
(Int) -> Char): Array<Char> {
    val array = Array<Char>(size)
    for (i in 0..array.size - 1) {
        @Suppress("UNUSED_VARIABLE") // used in js block
        val value = init(i)
        js("array[i] = value;")
    }
    return array
}
@JsName("longArray")
fun
longArray(size: Int, init: dynamic): Array<Long> {
    val result: dynamic = Array<Long>(size)
    result.$type$
= "LongArray"
    return when (init) {
        null, true -> fillArrayVal(result, 0L)
        false -> result
        else -
> fillArrayFun<Long>(result, init)
    }
}
@JsName("longArrayF")
inline fun longArrayWithFun(size: Int,
init: (Int) -> Long): Array<Long> = fillArrayFun(longArray(size, false), init)
private fun <T> fillArrayVal(array:
Array<T>, initialValue: T): Array<T> {
    for (i in 0..array.size - 1) {
        array[i] = initialValue
    }
    return
array
}
/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin
public class Enum<T> : Comparable<Enum<T>> {
    @JsName("name$")
    private var _name: String = ""
    @JsName("ordinal$")
    private var _ordinal: Int = 0
    val name: String
    get() = _name
    val ordinal: Int
    get() =
_ordinal
    override fun compareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)
    override fun
equals(other: Any?) = this === other
    override fun hashCode(): Int = js("Kotlin.identityHashCode")(this)
    override fun toString() = name
    companion object {
        null,
}
}
/*
 * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.
 */

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*\/n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\ArraysKt")\n\npackage
kotlin.collections\n\n\/n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element*
from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in
Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
Array<out T>.component1(): T {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If
the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component1():
Byte {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is
less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component1(): Short {\n    return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array
is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is
unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component1(): Int {\n    return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component1(): Long {\n    return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component1(): Float {\n    return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in
Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun
DoubleArray.component1(): Double {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If
the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component1():
Boolean {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is
less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component1(): Char {\n    return
get(0)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic
inline operator fun <T> Array<out T>.component2(): T {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element*
from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in
Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun
ByteArray.component2(): Byte {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If
the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component2():
Short {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is
less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun
IntArray.component2(): Int {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the
size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior
is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component2(): Long {\n    return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2,
throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component2(): Float {\n    return

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get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component2(): Double {\n    return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component2(): Boolean {\n    return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component2(): Char {\n    return
get(1)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component3(): T {\n    return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If
the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component3():
Byte {\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less
than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component3(): Short {\n    return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component3(): Int {\n    return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsException]
except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator
fun LongArray.component3(): Long {\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n *
If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component3():
Float {\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less
than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component3(): Double {\n    return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is
unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component3(): Boolean
{\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3,
throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component3(): Char {\n    return
get(2)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component4(): T {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic
inline operator fun ByteArray.component4(): Byte {\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from the
array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n
* where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun
ShortArray.component4(): Short {\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If
the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the

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behavior is unspecified.

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*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component4(): Int
{\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4,
throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component4(): Long {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component4(): Float {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component4(): Double {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component4(): Boolean {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the
array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n
* where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun
CharArray.component4(): Char {\n    return get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If
the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out
T>.component5(): T {\n    return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of
this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is
unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component5(): Byte {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5,
throws
an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component5(): Short {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component5(): Int {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component5(): Long {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where
the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component5():
Float {\n    return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less
than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component5(): Double {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component5(): Boolean {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic
inline operator fun CharArray.component5(): Char {\n    return get(4)\n}\n\n/**\n * Returns `true` if [element] is
found in the array.\n
*\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element:
T): Boolean {\n    return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n
*\npublic operator fun ByteArray.contains(element: Byte): Boolean {\n    return indexOf(element) >= 0\n}\n\n/**\n

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\* Returns `true` if [element] is found in the array.\n \*/\npublic operator fun ShortArray.contains(element: Short): Boolean {\n return indexOf(element) >= 0\n}\n\n/\*\*\n \* Returns `true` if [element] is found in the array.\n \*/\npublic operator fun IntArray.contains(element: Int): Boolean {\n return indexOf(element) >= 0\n}\n\n/\*\*\n \* Returns `true` if [element] is found in the array.\n \*/\npublic operator fun LongArray.contains(element: Long): Boolean {\n return indexOf(element) >= 0\n}\n\n/\*\*\n \* Returns `true` if [element] is found in the array.\n \*/\n@Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or 'asList().contains(element: T)' to get the same search behavior as in a list.", ReplaceWith("any { it == element }"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\n@Suppress("DEPRECATION")\npublic operator fun FloatArray.contains(element: Float): Boolean {\n return indexOf(element) >= 0\n}\n\n/\*\*\n \* Returns `true` if [element] is found in the array.\n \*/\n@Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or 'asList().contains(element: T)' to get the same search behavior as in a list.", ReplaceWith("any { it == element }"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\n@Suppress("DEPRECATION")\npublic operator fun DoubleArray.contains(element: Double): Boolean {\n return indexOf(element) >= 0\n}\n\n/\*\*\n \* Returns `true` if [element] is found in the array.\n \*/\npublic operator fun BooleanArray.contains(element: Boolean): Boolean {\n return indexOf(element) >= 0\n}\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*/\n \* @sample samples.collections.Collections.Elements.elementAt\n \*/\npublic expect fun <T> Array<out T>.elementAt(index: Int): T\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*/\n \* @sample samples.collections.Collections.Elements.elementAt\n \*/\npublic expect fun ByteArray.elementAt(index: Int): Byte\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*/\n \* @sample samples.collections.Collections.Elements.elementAt\n \*/\npublic expect fun ShortArray.elementAt(index: Int): Short\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*/\n \* @sample samples.collections.Collections.Elements.elementAt\n \*/\npublic expect fun IntArray.elementAt(index: Int): Int\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*/\n \* @sample samples.collections.Collections.Elements.elementAt\n \*/\npublic expect fun LongArray.elementAt(index: Int): Long\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*/\n \* @sample samples.collections.Collections.Elements.elementAt\n \*/\npublic expect fun FloatArray.elementAt(index: Int): Float\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*/\n \* @sample samples.collections.Collections.Elements.elementAt\n \*/\npublic expect fun DoubleArray.elementAt(index: Int): Double\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*/\n \* @sample samples.collections.Collections.Elements.elementAt\n \*/\npublic expect fun BooleanArray.elementAt(index: Int): Boolean\n\n/\*\*\n \* Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n \*/\n \* @sample samples.collections.Collections.Elements.elementAtOrElse\n \*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/\*\*\n \* Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of

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bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) ->
Byte): Byte {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n *
Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic
inline fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n    return if (index >= 0
&& index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index]
or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an
element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this
array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) ->
Float): Float {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n *
Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) ->
Double): Double {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n
* Returns an
element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this
array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) ->
Boolean): Boolean {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrNull(index: Int): T? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrNull(index: Int): Byte? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrNull(index: Int): Short? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.elementAtOrNull(index: Int): Int? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n

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*\/n@kotlin.internal.InlineOnly\npublic inline fun LongArray.elementAtOrNull(index: Int): Long? {\n  return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\/n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.elementAtOrNull(index: Int): Float? {\n  return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\/n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.elementAtOrNull(index: Int): Double? {\n  return this.getOrNull(index)\n}\n\n/**\n *
Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\/n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.elementAtOrNull(index: Int): Boolean? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\/n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.elementAtOrNull(index: Int): Char? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\/n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out
T>.find(predicate:
(T) -> Boolean): T? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\/n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.find(predicate: (Byte) -> Boolean): Byte? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\/n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.find(predicate: (Short) -> Boolean): Short? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\/n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.find(predicate: (Int) -> Boolean): Int? {\n  return
firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such
element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*\/n@kotlin.internal.InlineOnly\npublic inline fun LongArray.find(predicate: (Long) -> Boolean): Long? {\n
return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no
such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*\/n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.find(predicate: (Float) -> Boolean): Float? {\n
return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no
such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*\/n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.find(predicate: (Double) -> Boolean): Double? {\n
return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\/n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean? {\n  return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\/n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.find(predicate: (Char) -> Boolean): Char? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\/n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out
T>.findLast(predicate: (T) -> Boolean): T? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element
matching the

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given [predicate], or `null` if no such element was found.\n \* \n \* @sample

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samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.findLast(predicate: (Short) -> Boolean): Short? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.findLast(predicate: (Int) -> Boolean): Int? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element
was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.findLast(predicate: (Long) -> Boolean): Long? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no
such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.findLast(predicate: (Float) -> Boolean): Float? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no
such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double?
{\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if
no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.findLast(predicate: (Boolean) -> Boolean): Boolean? {\n  return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.findLast(predicate: (Char) -> Boolean): Char? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns
first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun <T> Array<out
T>.first(): T {\n  if (isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return
this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\npublic fun ByteArray.first(): Byte {\n  if (isEmpty())\n    throw NoSuchElementException("Array is
empty.")\n  return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\npublic fun ShortArray.first(): Short {\n  if (isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return
this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\npublic fun IntArray.first(): Int {\n  if (isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return
this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\npublic fun LongArray.first(): Long {\n  if (isEmpty())\n    throw NoSuchElementException("Array is
empty.")\n  return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
array is empty.\n */\npublic fun FloatArray.first(): Float {\n  if (isEmpty())\n    throw
NoSuchElementException("Array is empty.")\n  return this[0]\n}\n\n/**\n * Returns first element.\n *
@throws [NoSuchElementException] if the array is empty.\n */\npublic fun DoubleArray.first(): Double {\n  if
(isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return this[0]\n}\n\n/**\n * Returns first
element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun BooleanArray.first():
Boolean {\n  if (isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return
this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\npublic fun CharArray.first(): Char {\n  if (isEmpty())\n    throw NoSuchElementException("Array is
empty.")\n  return this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Array<out T>.first(predicate:
(T) -> Boolean): T {\n  for (element in this) if (predicate(element)) return element\n  throw

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NoSuchElementException("Array
contains no element matching the predicate.")\n\n\n * Returns the first element matching the given
[predicate].\n * @throws [NoSuchElementException] if no such element is found.\n * \npublic inline fun
ByteArray.first(predicate: (Byte) -> Boolean): Byte {\n    for (element in this) if (predicate(element)) return
element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n\n\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n * \npublic inline fun ShortArray.first(predicate: (Short) -> Boolean): Short {\n    for (element in
this) if (predicate(element)) return element\n    throw NoSuchElementException("Array contains no element
matching the predicate.")\n\n\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n * \npublic inline fun IntArray.first(predicate: (Int) ->
Boolean): Int {\n    for (element in this) if (predicate(element)) return element\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n\n\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*\npublic inline fun LongArray.first(predicate: (Long) -> Boolean): Long {\n    for (element in this) if
(predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the
predicate.")\n\n\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n * \npublic inline fun FloatArray.first(predicate: (Float) ->
Boolean): Float {\n    for (element in this) if (predicate(element)) return element\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n\n\n * Returns the first
element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n * \npublic inline fun DoubleArray.first(predicate:
(Double) -> Boolean): Double {\n    for (element in this) if (predicate(element)) return element\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n\n\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*\npublic inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {\n    for (element in this) if
(predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the
predicate.")\n\n\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n * \npublic inline fun CharArray.first(predicate: (Char) ->
Boolean): Char {\n    for (element in this) if (predicate(element)) return element\n    throw
NoSuchElementException("Array contains
no element matching the predicate.")\n\n\n * Returns the first element, or `null` if the array is empty.\n
*\npublic fun <T> Array<out T>.firstOrNull(): T? {\n    return if (isEmpty()) null else this[0]\n\n\n * Returns
the first element, or `null` if the array is empty.\n * \npublic fun ByteArray.firstOrNull(): Byte? {\n    return if
(isEmpty()) null else this[0]\n\n\n * Returns the first element, or `null` if the array is empty.\n * \npublic fun
ShortArray.firstOrNull(): Short? {\n    return if (isEmpty()) null else this[0]\n\n\n * Returns the first element,
or `null` if the array is empty.\n * \npublic fun IntArray.firstOrNull(): Int? {\n    return if (isEmpty()) null else
this[0]\n\n\n * Returns the first element, or `null` if the array is empty.\n * \npublic fun
LongArray.firstOrNull(): Long? {\n    return if (isEmpty()) null else this[0]\n\n\n * Returns the first element,
or `null` if the array is empty.\n * \npublic fun FloatArray.firstOrNull():
Float? {\n    return if (isEmpty()) null else this[0]\n\n\n * Returns the first element, or `null` if the array is
empty.\n * \npublic fun DoubleArray.firstOrNull(): Double? {\n    return if (isEmpty()) null else this[0]\n\n\n
* Returns the first element, or `null` if the array is empty.\n * \npublic fun BooleanArray.firstOrNull(): Boolean?
{\n    return if (isEmpty()) null else this[0]\n\n\n * Returns the first element, or `null` if the array is empty.\n
*\npublic fun CharArray.firstOrNull(): Char? {\n    return if (isEmpty()) null else this[0]\n\n\n * Returns the
first element matching the given [predicate], or `null` if element was not found.\n * \npublic inline fun <T>
Array<out T>.firstOrNull(predicate: (T) -> Boolean): T? {\n    for (element in this) if (predicate(element)) return
element\n    return null\n\n\n * Returns the first element matching the given [predicate], or `null` if element
was not found.\n * \npublic inline fun ByteArray.firstOrNull(predicate:

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(Byte) -> Boolean): Byte? {\n  for (element in this) if (predicate(element)) return element\n  return
null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n
*/\npublic inline fun ShortArray.firstOrNull(predicate: (Short) -> Boolean): Short? {\n  for (element in this) if
(predicate(element)) return element\n  return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n */\npublic inline fun IntArray.firstOrNull(predicate: (Int) ->
Boolean): Int? {\n  for (element in this) if (predicate(element)) return element\n  return null\n}\n\n/**\n * Returns
the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
LongArray.firstOrNull(predicate: (Long) -> Boolean): Long? {\n  for (element in this) if (predicate(element))
return element\n  return null\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
FloatArray.firstOrNull(predicate: (Float) -> Boolean): Float? {\n  for (element in this) if (predicate(element))
return element\n  return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n */\npublic inline fun DoubleArray.firstOrNull(predicate: (Double) -> Boolean): Double?
{\n  for (element in this) if (predicate(element)) return element\n  return null\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
BooleanArray.firstOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n  for (element in this) if
(predicate(element)) return element\n  return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n */\npublic inline fun CharArray.firstOrNull(predicate: (Char) ->
Boolean): Char? {\n
  for (element in this) if (predicate(element)) return element\n  return null\n}\n\n/**\n * Returns an element at the
given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.getOrNull(index: Int, defaultValue: (Int) ->
T): T {\n  return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.getOrNull(index: Int, defaultValue: (Int) -
> Byte): Byte {\n  return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n *
Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic
inline fun ShortArray.getOrNull(index: Int, defaultValue: (Int) -> Short): Short {\n  return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.getOrNull(index: Int, defaultValue: (Int) -> Int): Int {\n
return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element
at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.getOrNull(index: Int, defaultValue: (Int) -> Long):
Long {\n  return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or the result of calling the [defaultValue] function
if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.getOrNull(index: Int, defaultValue: (Int) -> Float): Float {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.getOrNull(index: Int, defaultValue: (Int) ->
Double): Double {\n  return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n
* Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.getOrNull(index: Int,
defaultValue: (Int) -> Boolean): Boolean {\n  return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n

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* Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.getOrNull(index: Int,
defaultValue: (Int) -> Char): Char {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n *^\npublic fun <T> Array<out
T>.getOrNull(index: Int): T? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n *
Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n *^\npublic fun ByteArray.getOrNull(index: Int): Byte? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns
an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n *^\npublic fun ShortArray.getOrNull(index: Int): Short? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n *^\npublic fun IntArray.getOrNull(index: Int): Int? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n *^\npublic fun LongArray.getOrNull(index: Int): Long? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n *^\npublic fun
FloatArray.getOrNull(index: Int): Float? {\n    return if (index >= 0 && index <= lastIndex) get(index) else
null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n *
@sample samples.collections.Collections.Elements.getOrNull\n *^\npublic fun DoubleArray.getOrNull(index:
Int): Double? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n *^\npublic fun BooleanArray.getOrNull(index: Int): Boolean?
{\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*^\npublic fun CharArray.getOrNull(index: Int): Char? {\n    return if (index >= 0 && index <= lastIndex)
get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n
*^\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.indexOf(element: T): Int {\n    if (element ==
null) {\n        for (index in indices) {\n            if (this[index] == null) {\n                return index\n            }
}\n    } else {\n        for (index in indices) {\n            if (element == this[index]) {\n                return index\n            }
}\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n
*^\npublic fun ByteArray.indexOf(element: Byte): Int {\n    for (index in indices) {\n        if (element == this[index])
{\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the
array does not contain element.\n *^\npublic fun ShortArray.indexOf(element: Short): Int {\n    for (index in
indices) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n *^\npublic fun IntArray.indexOf(element: Int):
Int {\n    for (index in indices) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -
1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n *^\npublic fun
LongArray.indexOf(element: Long): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n           
return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not
contain element.\n *^\n@Deprecated("\The function has unclear behavior when searching for NaN or zero values
and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue using this behavior, or '.asList().indexOf(element: T)' to get the same search
behavior as in a list.", ReplaceWith("\indexOfFirst { it == element }"))\n@DeprecatedSinceKotlin(warningSince =

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\1.4\)\npublic fun FloatArray.indexOf(element: Float): Int {\n    for (index in indices) {\n        if (element ==
this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if
the array does not contain element.\n */\n@Deprecated("The function has unclear behavior when searching for NaN
or zero values and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue using this
behavior, or '.asList().indexOf(element: T)' to get the same search behavior as in a list.\",
ReplaceWith("indexOfFirst { it == element }"))\n@DeprecatedSinceKotlin(warningSince = \1.4\)\npublic fun
DoubleArray.indexOf(element: Double): Int {\n    for (index in indices) {\n        if (element
== this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or
-1 if the array does not contain element.\n */\n\npublic fun BooleanArray.indexOf(element: Boolean): Int {\n    for
(index in indices) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n
* Returns first index of [element], or -1 if the array does not contain element.\n */\n\npublic fun
CharArray.indexOf(element: Char): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n
return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given
[predicate], or -1 if the array does not contain such element.\n */\n\npublic inline fun <T> Array<out
T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n
return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given
[predicate], or -1 if the array does not contain such
element.\n */\n\npublic inline fun ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {\n    for (index in
indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n
* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\n\npublic inline fun ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {\n    for (index in indices) {\n
if (predicate(this[index])) {\n        return index\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\n\npublic inline fun
IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index]))
{\n        return index\n    }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given
[predicate], or -1 if the array
does not contain such element.\n */\n\npublic inline fun LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int
{\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -
1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain
such element.\n */\n\npublic inline fun FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {\n    for (index in
indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n
* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\n\npublic inline fun DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {\n    for (index in indices) {\n
if (predicate(this[index])) {\n        return index\n    }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given
[predicate], or -1 if the array does not contain such element.\n */\n\npublic inline fun
BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\n\npublic inline fun
CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\n\npublic inline fun <T>
Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    for (index in indices.reversed())
{\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of
the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\n\npublic inline
fun ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\n\npublic inline fun

```

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ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index]))
            return index
    }
    return -1
}
Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

public inline fun IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index]))
            return index
    }
    return -1
}
Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

public inline fun LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index]))
            return index
    }
    return -1
}
Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

public inline fun FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index]))
            return index
    }
    return -1
}
Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

public inline fun DoubleArray.indexOfLast(predicate: (Double) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index]))
            return index
    }
    return -1
}
Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

public inline fun BooleanArray.indexOfLast(predicate: (Boolean) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index]))
            return index
    }
    return -1
}
Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

public inline fun CharArray.indexOfLast(predicate: (Char) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index]))
            return index
    }
    return -1
}
Returns the last element.

@throws NoSuchElementException if the array is empty.

@sample samples.collections.Collections.Elements.last

public fun <T> Array<out T>.last(): T {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}
Returns the last element.

@throws NoSuchElementException if the array is empty.

@sample samples.collections.Collections.Elements.last

public fun ByteArray.last(): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}
Returns the last element.

@throws NoSuchElementException if the array is empty.

@sample samples.collections.Collections.Elements.last

public fun ShortArray.last(): Short {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}
Returns the last element.

@throws NoSuchElementException if the array is empty.

@sample samples.collections.Collections.Elements.last

public fun IntArray.last(): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}
Returns the last element.

@throws NoSuchElementException if the array is empty.

@sample samples.collections.Collections.Elements.last

public fun LongArray.last(): Long {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}
Returns the last element.

@throws NoSuchElementException if the array is empty.

@sample samples.collections.Collections.Elements.last

public fun FloatArray.last(): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}
Returns the last element.

@throws NoSuchElementException if the array is empty.

@sample samples.collections.Collections.Elements.last

public fun DoubleArray.last(): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}
Returns the last element.

@throws NoSuchElementException if the array is empty.

@sample samples.collections.Collections.Elements.last

public fun BooleanArray.last(): Boolean {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}
Returns the last element.

@throws NoSuchElementException if the array is empty.

@sample samples.collections.Collections.Elements.last

public fun CharArray.last(): Char {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return

```

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this[lastIndex]\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline
fun <T> Array<out T>.last(predicate: (T) -> Boolean): T {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n
* \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun ByteArray.last(predicate:
(Byte) -> Boolean): Byte {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n
        if
(predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic
inline fun ShortArray.last(predicate: (Short) -> Boolean): Short {\n    for (index in this.indices.reversed()) {\n
        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n
* \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun IntArray.last(predicate: (Int) ->
Boolean): Int {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*/\npublic inline fun LongArray.last(predicate: (Long) -> Boolean): Long {\n    for (index in this.indices.reversed())
{\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n
* \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun FloatArray.last(predicate:
(Float) -> Boolean): Float {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n
        if
(predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*/\npublic inline fun DoubleArray.last(predicate: (Double) -> Boolean): Double {\n    for (index in
this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n
    }\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the
last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is
found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun
BooleanArray.last(predicate: (Boolean) -> Boolean): Boolean {\n    for (index in this.indices.reversed()) {\n
        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n
* \n * @sample samples.collections.Collections.Elements.last\n
*/\npublic inline fun CharArray.last(predicate: (Char) -> Boolean): Char {\n    for (index in this.indices.reversed())
{\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns last index
of [element], or -1 if the array does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T>
Array<out T>.lastIndexOf(element: T): Int {\n    if (element == null) {\n        for (index in indices.reversed()) {\n

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    if (this[index] == null) {
        return index
    } else {
        for (index in
indices.reversed()) {
            if (element == this[index]) {
                return index
            }
        }
    }
return -1
}

* Returns last index of [element], or -1 if the array does not contain element.
*/
public fun
ByteArray.lastIndexOf(element:
Byte): Int {
    for (index in indices.reversed()) {
        if (element == this[index]) {
            return index
        }
    }
return -1
}

* Returns last index of [element], or -1 if the array does not contain element.
*/
public fun ShortArray.lastIndexOf(element: Short): Int {
    for (index in indices.reversed()) {
        if (element
== this[index]) {
            return index
        }
    }
return -1
}

* Returns last index of [element], or -
1 if the array does not contain element.
*/
public fun IntArray.lastIndexOf(element: Int): Int {
    for (index in
indices.reversed()) {
        if (element == this[index]) {
            return index
        }
    }
return -1
}

* Returns last index of [element], or -1 if the array does not contain element.
*/
public fun
LongArray.lastIndexOf(element: Long): Int {
    for (index in indices.reversed()) {
        if (element ==
this[index]) {
            return index
        }
    }
return -1
}

* Returns last index of [element], or -1 if the array does not
contain element.
*/
@Deprecated("The function has unclear behavior when searching for NaN or zero values
and will be removed soon. Use 'indexOfLast { it == element }' instead to continue using this behavior, or
'.asList().lastIndexOf(element: T)' to get the same search behavior as in a list.", ReplaceWith("indexOfLast { it ==
element }"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun FloatArray.lastIndexOf(element:
Float): Int {
    for (index in indices.reversed()) {
        if (element == this[index]) {
            return index
        }
    }
return -1
}

* Returns last index of [element], or -1 if the array does not contain element.
*/
@Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed
soon. Use 'indexOfLast { it == element }' instead to continue using this behavior,
or '.asList().lastIndexOf(element: T)' to get the same search behavior as in a list.", ReplaceWith("indexOfLast { it
== element }"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun DoubleArray.lastIndexOf(element:
Double): Int {
    for (index in indices.reversed()) {
        if (element == this[index]) {
            return index
        }
    }
return -1
}

* Returns last index of [element], or -1 if the array does not contain element.
*/
public fun BooleanArray.lastIndexOf(element: Boolean): Int {
    for (index in indices.reversed()) {
        if (element == this[index]) {
            return index
        }
    }
return -1
}

* Returns
the last element, or `null` if the array is empty.
*/
@sample samples.collections.Collections.Elements.last
*/
public fun <T> Array<out T>.lastOrNull(): T? {
    return if (isEmpty()) null else this[size - 1]
}

* Returns the last element, or `null` if the array is empty.
*/
@sample
samples.collections.Collections.Elements.last
*/
public fun ByteArray.lastOrNull(): Byte? {
    return if
(isEmpty()) null else this[size - 1]
}

* Returns the last element, or `null` if the array is empty.
*/
@sample
samples.collections.Collections.Elements.last
*/
public fun ShortArray.lastOrNull(): Short? {
    return if (isEmpty()) null else this[size - 1]
}

* Returns the last element, or `null` if the array is empty.
*/
@sample
samples.collections.Collections.Elements.last
*/
public fun IntArray.lastOrNull(): Int? {
    return
if (isEmpty()) null else this[size - 1]
}

* Returns the last element, or `null` if the array is empty.
*/
@sample
samples.collections.Collections.Elements.last
*/
public fun LongArray.lastOrNull(): Long? {
    return
if (isEmpty()) null else this[size - 1]
}

* Returns the last element, or `null` if the array is empty.
*/
@sample
samples.collections.Collections.Elements.last
*/
public fun FloatArray.lastOrNull(): Float? {
    return
if (isEmpty()) null else this[size - 1]
}

* Returns the last element, or `null` if the array is empty.
*/
@sample
samples.collections.Collections.Elements.last
*/
public fun DoubleArray.lastOrNull(): Double? {
    return
if (isEmpty()) null else this[size - 1]
}

* Returns the last element, or `null` if the array is empty.
*/
@sample
samples.collections.Collections.Elements.last
*/
public fun BooleanArray.lastOrNull(): Boolean? {
    return
if (isEmpty()) null else this[size - 1]
}

* Returns the last element, or `null` if the array is

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empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*/\npublic fun CharArray.lastOrNull(): Char? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Array<out T>.lastOrNull(predicate: (T) -> Boolean): T? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun ByteArray.lastOrNull(predicate: (Byte) -> Boolean): Byte? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun ShortArray.lastOrNull(predicate: (Short) -> Boolean): Short? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun IntArray.lastOrNull(predicate: (Int) -> Boolean): Int? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun LongArray.lastOrNull(predicate: (Long) -> Boolean): Long? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun FloatArray.lastOrNull(predicate: (Float) -> Boolean): Float? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun DoubleArray.lastOrNull(predicate: (Double) -> Boolean): Double? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun BooleanArray.lastOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun CharArray.random(): Char {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n * \n * @sample\n */\n\n/**\n * \n * @since Kotlin("1.3")\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.random(): T {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n * \n * @sample\n */\n\n/**\n * \n * @since Kotlin("1.3")\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.random(): Byte {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n * \n * @sample\n */\n\n/**\n * \n * @since Kotlin("1.3")\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.random(): Short {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n * \n * @sample\n */\n\n/**\n * \n * @since Kotlin("1.3")\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.random(): Int {\n    return

```

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random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.random(): Long {\n    return random(Random)\n}\n\n/**\n * Returns a random element from
this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.random(): Float {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.random(): Double {\n    return random(Random)\n}\n\n/**\n * Returns a random element
from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.random(): Boolean {\n
    return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun CharArray.random(): Char {\n    return random(Random)\n}\n\n/**\n * Returns a random element from
this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is
empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic fun <T> Array<out T>.random(random: Random): T {\n
    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic fun ByteArray.random(random: Random): Byte {\n    if (isEmpty())\n        throw NoSuchElementException("Array
is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the
specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic fun ShortArray.random(random: Random): Short {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic fun IntArray.random(random: Random): Int {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic fun LongArray.random(random: Random): Long {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic fun FloatArray.random(random: Random): Float {\n    if (isEmpty())\n        throw NoSuchElementException("Array is
empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the
specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic fun DoubleArray.random(random: Random): Double {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a
random element from this array using the specified source of randomness.\n * \n * @throws
NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic fun
BooleanArray.random(random: Random): Boolean {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws
NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic fun
CharArray.random(random: Random): Char {\n    if (isEmpty())\n        throw NoSuchElementException("Array is
empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if
this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli

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c inline fun <T> Array<out T>.randomOrNull(): T? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun ByteArray.randomOrNull(): Byte? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array
is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun ShortArray.randomOrNull(): Short? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun IntArray.randomOrNull(): Int? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun LongArray.randomOrNull(): Long? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun FloatArray.randomOrNull():
Float? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this
array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun DoubleArray.randomOrNull(): Double? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun BooleanArray.randomOrNull(): Boolean? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun CharArray.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array using the specified source of randomness,
or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T> Array<out
T>.randomOrNull(random: Random): T? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
ByteArray.randomOrNull(random: Random): Byte? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
ShortArray.randomOrNull(random: Random): Short? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array
using the specified source of randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
IntArray.randomOrNull(random: Random): Int? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
LongArray.randomOrNull(random: Random): Long? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of

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randomness, or `null` if this array is empty.

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*\/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic fun
FloatArray.randomOrNull(random: Random): Float? {n if (isEmpty())n return nulln return
get(random.nextInt(size))n}n/n/**n * Returns
a random element from this array using the specified source of randomness, or `null` if this array is empty.
*\/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic fun
DoubleArray.randomOrNull(random: Random): Double? {n if (isEmpty())n return nulln return
get(random.nextInt(size))n}n/n/**n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.
*\/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic fun
BooleanArray.randomOrNull(random: Random): Boolean? {n if (isEmpty())n return nulln return
get(random.nextInt(size))n}n/n/**n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.
*\/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic fun
CharArray.randomOrNull(random: Random): Char? {n if (isEmpty())n return nulln
return get(random.nextInt(size))n}n/n/**n * Returns the single element, or throws an exception if the array is
empty or has more than one element.
*\/npublic fun <T> Array<out T>.single(): T {n return when (size) {n
0 -> throw NoSuchElementException("Array is empty.")n 1 -> this[0]n else -> throw
IllegalArgumentException("Array has more than one element.")n }}n/n/n/**n * Returns the single element, or
throws an exception if the array is empty or has more than one element.
*\/npublic fun ByteArray.single(): Byte
{n return when (size) {n 0 -> throw NoSuchElementException("Array is empty.")n 1 -> this[0]n
else -> throw IllegalArgumentException("Array has more than one element.")n }}n}n/n/n/**n * Returns the
single element, or throws an exception if the array is empty or has more than one element.
*\/npublic fun
ShortArray.single(): Short {n return when (size) {n 0 -> throw NoSuchElementException("Array
is empty.")n 1 -> this[0]n else -> throw IllegalArgumentException("Array has more than one
element.")n }}n}n/n/n/**n * Returns the single element, or throws an exception if the array is empty or has more
than one element.
*\/npublic fun IntArray.single(): Int {n return when (size) {n 0 -> throw
NoSuchElementException("Array is empty.")n 1 -> this[0]n else -> throw
IllegalArgumentException("Array has more than one element.")n }}n}n/n/n/**n * Returns the single element, or
throws an exception if the array is empty or has more than one element.
*\/npublic fun LongArray.single(): Long
{n return when (size) {n 0 -> throw NoSuchElementException("Array is empty.")n 1 -> this[0]n
else -> throw IllegalArgumentException("Array has more than one element.")n }}n}n/n/n/**n * Returns the
single element, or throws an exception if the array is empty or has more than one element.
*\/npublic fun
FloatArray.single(): Float {n return when (size) {n 0 -> throw NoSuchElementException("Array is
empty.")n 1 -> this[0]n else -> throw IllegalArgumentException("Array has more than one element.")n
}}n}n/n/n/**n * Returns the single element, or throws an exception if the array is empty or has more than one
element.
*\/npublic fun DoubleArray.single(): Double {n return when (size) {n 0 -> throw
NoSuchElementException("Array is empty.")n 1 -> this[0]n else -> throw
IllegalArgumentException("Array has more than one element.")n }}n}n/n/n/**n * Returns the single element, or
throws an exception if the array is empty or has more than one element.
*\/npublic fun BooleanArray.single():
Boolean {n return when (size) {n 0 -> throw NoSuchElementException("Array is empty.")n 1 ->
this[0]n else -> throw IllegalArgumentException("Array has more than one element.")n }}n}n/n/n/**n *
Returns the
single element, or throws an exception if the array is empty or has more than one element.
*\/npublic fun
CharArray.single(): Char {n return when (size) {n 0 -> throw NoSuchElementException("Array is
empty.")n 1 -> this[0]n else -> throw IllegalArgumentException("Array has more than one element.")n
}}n}n/n/n/**n * Returns the single element matching the given [predicate], or throws exception if there is no or
more than one matching element.
*\/npublic inline fun <T> Array<out T>.single(predicate: (T) -> Boolean): T {n

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var single: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if
(found) throw IllegalArgumentException("Array contains more than one matching element.")\n            single =
element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no
element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as T\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if
there is no or more than one matching element.\n */\npublic inline fun ByteArray.single(predicate: (Byte) ->
Boolean): Byte {\n    var single: Byte? = null\n    var found = false\n    for (element in this) {\n        if
(predicate(element)) {\n            if (found) throw IllegalArgumentException("Array contains more than one
matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw
NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Byte\n}\n\n/**\n * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun
ShortArray.single(predicate: (Short) -> Boolean): Short {\n    var single: Short? = null\n    var found = false\n    for
(element
in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array contains more
than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw
NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Short\n}\n\n/**\n * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun
IntArray.single(predicate: (Int) -> Boolean): Int {\n    var single: Int? = null\n    var found = false\n    for (element in
this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array contains more
than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw
NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Int\n}\n\n/**\n * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun
LongArray.single(predicate: (Long) -> Boolean): Long {\n    var single: Long? = null\n    var found = false\n    for
(element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Long\n}\n\n/**\n * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching
element.\n */\npublic inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {\n    var single: Float?
= null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentException("Array contains more than one matching element.")\n            single = element\n
found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Float\n}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\npublic inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {\n    var single:
Double? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found)
throw IllegalArgumentException("Array contains more than one matching element.")\n            single = element\n
found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array
contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as
Double\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or
more than one matching element.\n */\npublic inline fun BooleanArray.single(predicate: (Boolean) -> Boolean):
Boolean {\n    var single: Boolean? = null\n    var found = false\n    for (element in this) {\n        if
(predicate(element)) {\n            if (found) throw IllegalArgumentException("Array contains more than one
matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw
NoSuchElementException("Array contains no element matching the predicate.")\n}

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@Suppress("UNCHECKED_CAST")\n  return single as Boolean\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic
inline fun CharArray.single(predicate:
(Char) -> Boolean): Char {\n  var single: Char? = null\n  var found = false\n  for (element in this) {\n    if
(predicate(element)) {\n      if (found) throw IllegalArgumentException("Array contains more than one
matching element.")\n      single = element\n      found = true\n    }\n  }\n  if (!found) throw
NoSuchElementException("Array contains no element matching the predicate.")\n}
@Suppress("UNCHECKED_CAST")\n  return single as Char\n}\n\n/**\n * Returns single element, or `null` if
the array is empty or has more than one element.\n */\npublic fun <T> Array<out T>.singleOrNull(): T? {\n  return
if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than
one element.\n */\npublic fun ByteArray.singleOrNull(): Byte? {\n  return if (size == 1) this[0] else
null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one
element.\n */\npublic fun ShortArray.singleOrNull(): Short? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n
* Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun
IntArray.singleOrNull(): Int? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or
`null` if the array is empty or has more than one element.\n */\npublic fun LongArray.singleOrNull(): Long? {\n
return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n */\npublic fun FloatArray.singleOrNull(): Float? {\n  return if (size == 1) this[0] else
null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic
fun DoubleArray.singleOrNull(): Double? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n */\npublic
fun BooleanArray.singleOrNull(): Boolean? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n */\npublic fun CharArray.singleOrNull():
Char? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given
[predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun <T>
Array<out T>.singleOrNull(predicate: (T) -> Boolean): T? {\n  var single: T? = null\n  var found = false\n  for
(element in this) {\n    if (predicate(element)) {\n      if (found) return null\n      single = element\n
found = true\n    }\n  }\n  if (!found) return null\n  return single\n}\n\n/**\n * Returns the single element
matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic
inline fun ByteArray.singleOrNull(predicate:
(Byte) -> Boolean): Byte? {\n  var single: Byte? = null\n  var found = false\n  for (element in this) {\n    if
(predicate(element)) {\n      if (found) return null\n      single = element\n      found = true\n    }\n  }\n
if (!found) return null\n  return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.\n */\npublic inline fun
ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n  var single: Short? = null\n  var found =
false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null\n      single =
element\n      found = true\n    }\n  }\n  if (!found) return null\n  return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n */\npublic inline fun IntArray.singleOrNull(predicate:
(Int) -> Boolean): Int? {\n  var single: Int? = null\n  var found = false\n  for (element in this) {\n    if
(predicate(element)) {\n      if (found) return null\n      single = element\n      found = true\n    }\n  }\n
if (!found) return null\n  return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.\n */\npublic inline fun
LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n  var single: Long? = null\n  var found =
false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null\n      single =
element\n      found = true\n    }\n  }\n  if (!found) return null\n  return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n */\npublic inline fun FloatArray.singleOrNull(predicate:

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(Float) -> Boolean): Float? {\n  var single: Float? = null\n  var found = false\n  for (element in this) {\n    if
(predicate(element)) {\n      if (found) return null\n      single = element\n      found = true\n    }\n  }\n  if (!found) return null\n  return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.\n */\npublic inline fun
DoubleArray.singleOrNull(predicate: (Double) -> Boolean): Double? {\n  var single: Double? = null\n  var found
= false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null\n      single =
element\n      found = true\n    }\n  }\n  if (!found) return null\n  return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n */\npublic inline
fun BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n  var single: Boolean? = null\n
var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null\n
single = element\n      found = true\n    }\n  }\n  if (!found) return null\n  return single\n}\n\n/**\n *
Returns the single element matching the given [predicate], or `null` if element was not found or more than one
element was found.\n */\npublic inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {\n  var
single: Char? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if
(found) return null\n      single = element\n      found = true\n    }\n  }\n  if (!found) return null\n  return
single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n * @throws
IllegalArgumentExcepion if [n] is negative.\n
\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.drop(n:
Int): List<T> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n * @throws
IllegalArgumentExcepion if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.drop(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n * @throws
IllegalArgumentExcepion if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.drop(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return
takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n
*/\n * @throws IllegalArgumentExcepion if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.drop(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n * @throws
IllegalArgumentExcepion if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun LongArray.drop(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n * @throws
IllegalArgumentExcepion if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.drop\n
\n */\npublic fun FloatArray.drop(n: Int): List<Float> {\n  require(n >= 0) { \"Requested element count $n is less
than zero.\" }\n  return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements
except first [n] elements.\n */\n * @throws IllegalArgumentExcepion if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun DoubleArray.drop(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n * @throws
IllegalArgumentExcepion if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun BooleanArray.drop(n: Int): List<Boolean>
{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -

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n).coerceAtLeast(0))\n}\n\n/**\n
 * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n]
 is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun
CharArray.drop(n: Int): List<Char> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n
return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n]
elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.dropLast(n: Int): List<T>
{\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.dropLast(n: Int): List<Byte> {\n
    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n
 * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.dropLast(n: Int): List<Short> {\n
    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.dropLast(n: Int): List<Int> {\n
    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing
all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.drop\n */\npublic fun LongArray.dropLast(n: Int):
List<Long> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun FloatArray.dropLast(n: Int): List<Float> {\n
    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun DoubleArray.dropLast(n: Int):
List<Double> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun BooleanArray.dropLast(n: Int):
List<Boolean> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun CharArray.dropLast(n: Int): List<Char> {\n
    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic
inline fun <T> Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n    for (index in lastIndex
downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun
ByteArray.dropLastWhile(predicate: (Byte) -> Boolean): List<Byte> {\n    for (index in lastIndex downTo 0) {\n
        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n

```

Returns a list containing all elements except last elements that satisfy the given [predicate].\n \* \n \* @sample

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samples.collections.Collections.Transformations.drop\n *\npublic inline fun ShortArray.dropLastWhile(predicate:
(Short) -> Boolean): List<Short> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n } \n } \n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun IntArray.dropLastWhile(predicate:
(Int) -> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n } \n } \n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun LongArray.dropLastWhile(predicate:
(Long) -> Boolean): List<Long> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n } \n } \n return emptyList()\n}\n\n/**\n * Returns a list containing all
elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun FloatArray.dropLastWhile(predicate:
(Float) -> Boolean): List<Float> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n } \n } \n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun DoubleArray.dropLastWhile(predicate:
(Double) -> Boolean): List<Double> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n } \n } \n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun
BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n for (index in lastIndex
downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n } \n } \n return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun
CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n return take(index + 1)\n } \n } \n return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\npublic inline fun <T> Array<out T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n var yielding = false\n
val list = ArrayList<T>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if
(!predicate(item)) {\n list.add(item)\n yielding = true\n } \n return list\n}\n\n/**\n * Returns a list
containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
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if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding =
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given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun ShortArray.dropWhile(predicate:
(Short) -> Boolean): List<Short> {\n var yielding = false\n val list = ArrayList<Short>()\n for (item in this)\n
if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding =
true\n } \n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the
given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun
IntArray.dropWhile(predicate: (Int) -> Boolean): List<Int> {\n var yielding = false\n val list =
ArrayList<Int>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n
list.add(item)\n yielding = true\n } \n return list\n}\n\n/**\n * Returns a list containing all elements
except first elements

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that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\npublic inline fun LongArray.dropWhile(predicate: (Long) -> Boolean): List<Long> {\n  var yielding = false\n
val list = ArrayList<Long>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if\n
(!predicate(item)) {\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n**\n * Returns a list\n
containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample\n
samples.collections.Collections.Transformations.drop\n
*\npublic inline fun FloatArray.dropWhile(predicate:\n
(Float) -> Boolean): List<Float> {\n  var yielding = false\n  val list = ArrayList<Float>()\n  for (item in this)\n
if (yielding)\n  list.add(item)\n  else if (!predicate(item)) {\n  list.add(item)\n  yielding =\n
true\n  }\n  return list\n}\n\n**\n * Returns\n
a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample\n
samples.collections.Collections.Transformations.drop\n
*\npublic inline fun DoubleArray.dropWhile(predicate:\n
(Double) -> Boolean): List<Double> {\n  var yielding = false\n  val list = ArrayList<Double>()\n  for (item in\n
this)\n  if (yielding)\n  list.add(item)\n  else if (!predicate(item)) {\n  list.add(item)\n\n
yielding = true\n  }\n  return list\n}\n\n**\n * Returns a list containing all elements except first\n
elements that\n
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\npublic\n
inline fun BooleanArray.dropWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n  var yielding = false\n
val list = ArrayList<Boolean>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if\n
(!predicate(item)) {\n      list.add(item)\n\n      yielding = true\n    }\n  return list\n}\n\n**\n * Returns a list containing all elements except first\n
elements that satisfy the given [predicate].\n * \n * @sample\n
samples.collections.Collections.Transformations.drop\n
*\npublic inline fun CharArray.dropWhile(predicate:\n
(Char) -> Boolean): List<Char> {\n  var yielding = false\n  val list = ArrayList<Char>()\n  for (item in this)\n
if (yielding)\n  list.add(item)\n  else if (!predicate(item)) {\n  list.add(item)\n  yielding =\n
true\n  }\n  return list\n}\n\n**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample\n
samples.collections.Collections.Filtering.filter\n
*\npublic inline fun <T> Array<out\n
T>.filter(predicate: (T) -> Boolean): List<T> {\n  return filterTo(ArrayList<T>(), predicate)\n}\n\n**\n * Returns\n
a list containing only elements matching the given [predicate].\n * \n * @sample\n
samples.collections.Collections.Filtering.filter\n
*\npublic inline fun ByteArray.filter(predicate: (Byte) -> Boolean): List<Byte> {\n  return\n
filterTo(ArrayList<Byte>(), predicate)\n}\n\n**\n * Returns a list containing only elements matching the given\n
[predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\npublic inline fun\n
ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {\n  return filterTo(ArrayList<Short>(),\n
predicate)\n}\n\n**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample\n
samples.collections.Collections.Filtering.filter\n
*\npublic inline fun IntArray.filter(predicate: (Int) -> Boolean):\n
List<Int> {\n  return filterTo(ArrayList<Int>(), predicate)\n}\n\n**\n * Returns a list containing only elements\n
matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\npublic inline\n
fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {\n  return filterTo(ArrayList<Long>(),\n
predicate)\n}\n\n**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample\n
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Boolean): List<Float> {\n  return filterTo(ArrayList<Float>(), predicate)\n}\n\n**\n * Returns a list containing\n
only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
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DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {\n  return\n
filterTo(ArrayList<Double>(), predicate)\n}\n\n**\n * Returns a list containing only elements matching the given\n
[predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\npublic inline fun\n
BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {\n  return filterTo(ArrayList<Boolean>(),\n
predicate)\n}\n\n**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample\n
samples.collections.Collections.Filtering.filter\n
*\npublic inline fun CharArray.filter(predicate:\n
(Char) -> Boolean): List<Char> {\n  return filterTo(ArrayList<Char>(), predicate)\n}\n\n**\n * Returns a list

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containing only elements matching the given [predicate].\n \* @param [predicate] function that takes the index of an element and the element itself\n \* and returns the result of predicate evaluation on the element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun <T> Array<out T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching the given [predicate].\n \* @param [predicate] function that takes the index of an element and the element itself\n \* and returns the result of predicate evaluation on the element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun ByteArray.filterIndexed(predicate: (index: Int, Byte) -> Boolean): List<Byte> {\n return filterIndexedTo(ArrayList<Byte>(), predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching the given [predicate].\n \* @param [predicate] function that takes the index of an element and the element itself\n \* and returns the result of predicate evaluation on the element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun ShortArray.filterIndexed(predicate: (index: Int, Short) -> Boolean): List<Short> {\n return filterIndexedTo(ArrayList<Short>(), predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching the given [predicate].\n \* @param [predicate] function that takes the index of an element and the element itself\n \* and returns the result of predicate evaluation on the element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun IntArray.filterIndexed(predicate: (index: Int, Int) -> Boolean): List<Int> {\n return filterIndexedTo(ArrayList<Int>(), predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching the given [predicate].\n \* @param [predicate] function that takes the index of an element and the element itself\n \* and returns the result of predicate evaluation on the element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun LongArray.filterIndexed(predicate: (index: Int, Long) -> Boolean): List<Long> {\n return filterIndexedTo(ArrayList<Long>(), predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching the given [predicate].\n \* @param [predicate] function that takes the index of an element and the element itself\n \* and returns the result of predicate evaluation on the element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {\n return filterIndexedTo(ArrayList<Float>(), predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching the given [predicate].\n \* @param [predicate] function that takes the index of an element and the element itself\n \* and returns the result of predicate evaluation on the element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun DoubleArray.filterIndexed(predicate: (index: Int, Double) -> Boolean): List<Double> {\n return filterIndexedTo(ArrayList<Double>(), predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching the given [predicate].\n \* @param [predicate] function that takes the index of an element and the element itself\n \* and returns the result of predicate evaluation on the element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {\n return filterIndexedTo(ArrayList<Boolean>(), predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching the given [predicate].\n \* @param [predicate] function that takes the index of an element and the element itself\n \* and returns the result of predicate evaluation on the element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun CharArray.filterIndexed(predicate: (index: Int, Char) -> Boolean): List<Char> {\n return filterIndexedTo(ArrayList<Char>(), predicate)\n}\n\n/\*\*\n \* Appends all elements matching the given [predicate] to the given [destination].\n \* @param [predicate] function that takes the index of an element and the element itself\n \* and returns the result of predicate evaluation on the element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexedTo\n \*/\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/\*\*\n \* Appends all elements matching the given [predicate] to the given [destination].\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexedTo\n \*/

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@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*/\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate:
(index: Int, Byte) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n *
@sample samples.collections.Collections.Filtering.filterIndexedTo\n
*/\npublic inline fun <C :
MutableCollection<in Short>> ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) ->
Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n
*/\npublic inline fun <C : MutableCollection<in Int>>
IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {\n    forEachIndexed { index,
element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n *
Appends all elements matching
the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element
and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n
*/\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {\n    forEachIndexed {
index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*/\npublic inline fun <C : MutableCollection<in Float>>
FloatArray.filterIndexedTo(destination: C, predicate:
(index: Int, Float) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n
*/\npublic inline fun <C : MutableCollection<in
Double>> DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) -> Boolean): C {\n   
forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result
of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n
*/\npublic inline fun <C : MutableCollection<in
Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): C {\n   
forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*/\npublic inline fun <C : MutableCollection<in Char>>
CharArray.filterIndexedTo(destination: C, predicate:
(index: Int, Char) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return
destination\n}\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter R.\n *
\n * @sample samples.collections.Collections.Filtering.filterIsInstance\n
*/\npublic inline fun <reified R>
Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n    return

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filterIsInstanceTo(ArrayList<R>())\n\n/**\n * Appends all elements that are instances of specified type
parameter R to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstanceTo\n *\npublic inline fun <reified R, C :
MutableCollection<in R>> Array<*>.filterIsInstanceTo(destination: C): C {\n  for (element in this) if (element is
R) destination.add(element)\n  return destination\n}\n\n/**\n * Returns a list containing all elements not matching
the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline fun <T>
Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {\n  return filterNotTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun ByteArray.filterNot(predicate: (Byte) ->
Boolean): List<Byte> {\n  return filterNotTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing
all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\npublic inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> {\n  return
filterNotTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the
given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline fun
IntArray.filterNot(predicate: (Int) -> Boolean): List<Int> {\n  return filterNotTo(ArrayList<Int>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given
[predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline fun
LongArray.filterNot(predicate: (Long) -> Boolean): List<Long> {\n  return filterNotTo(ArrayList<Long>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun FloatArray.filterNot(predicate: (Float) ->
Boolean): List<Float> {\n  return filterNotTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun DoubleArray.filterNot(predicate: (Double) ->
Boolean): List<Double> {\n  return filterNotTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline
fun BooleanArray.filterNot(predicate: (Boolean) -> Boolean): List<Boolean> {\n  return
filterNotTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the
given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline fun
CharArray.filterNot(predicate: (Char) -> Boolean): List<Char> {\n  return filterNotTo(ArrayList<Char>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements that are not `null`.\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNull\n *\npublic fun <T : Any> Array<out T?>.filterNotNull():
List<T> {\n  return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the
given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterNotNullTo\n *\npublic fun <C
: MutableCollection<in T>, T : Any> Array<out T?>.filterNotNullTo(destination: C): C {\n  for (element in this) if
(element != null)
destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate]
to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun
<T, C : MutableCollection<in T>> Array<out T>.filterNotTo(destination: C, predicate: (T) ->
Boolean): C {\n  for (element in this) if (!predicate(element)) destination.add(element)\n  return
destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in
Byte>> ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterNotTo(destination: C, predicate: (Short) -
> Boolean): C {\n  for (element in this) if (!predicate(element)) destination.add(element)\n  return

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destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Int>>
IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n
return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given
[destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C :
MutableCollection<in Float>> FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {\n  for
(element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Double>>
DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*/\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterNotTo(destination: C, predicate:
(Boolean) -> Boolean): C {\n  for (element in this) if (!predicate(element)) destination.add(element)\n  return
destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in
Char>> CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*/\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterTo(destination: C, predicate: (T) ->
Boolean): C {\n  for (element in this) if (predicate(element)) destination.add(element)\n
return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
\n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in
Byte>> ByteArray.filterTo(destination: C, predicate: (Byte) -> Boolean): C {\n  for (element in this) if
(predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*/\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterTo(destination: C, predicate: (Short) ->
Boolean): C {\n  for (element in this) if (predicate(element)) destination.add(element)\n  return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun
<C : MutableCollection<in Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean): C {\n  for (element
in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {\n  for (element in this) if
(predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*/\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterTo(destination: C, predicate: (Float) ->
Boolean): C {\n  for (element in this) if (predicate(element)) destination.add(element)\n  return
destination\n}\n\n/**\n * Appends
all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Double>>

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Returns a list containing elements at specified [indices].\n *^public fun FloatArray.slice(indices: Iterable<Int>):
List<Float> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list =
ArrayList<Float>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/*\n * Returns a list containing elements at specified [indices].\n *^public fun DoubleArray.slice(indices: Iterable<Int>):
List<Double> {\n    val size = indices.collectionSizeOrDefault(10)\n
    if (size == 0) return emptyList()\n    val list = ArrayList<Double>(size)\n    for (index in indices) {\n
list.add(get(index))\n    }\n    return list\n}\n\n/*\n * Returns a list containing elements at specified [indices].\n *^public fun BooleanArray.slice(indices: Iterable<Int>): List<Boolean> {\n    val size =
indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Boolean>(size)\n
for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/*\n * Returns a list containing
elements at specified [indices].\n *^public fun CharArray.slice(indices: Iterable<Int>): List<Char> {\n    val size =
indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Char>(size)\n
for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/*\n * Returns an array containing
elements of this array at specified [indices].\n *^public fun <T> Array<T>.sliceArray(indices: Collection<Int>): Array<T> {\n    val result = arrayOfNulls(this,
indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] =
this[sourceIndex]\n    }\n    return result\n}\n\n/*\n * Returns an array containing elements of this array at specified
[indices].\n *^public fun ByteArray.sliceArray(indices: Collection<Int>): ByteArray {\n    val result =
ByteArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] =
this[sourceIndex]\n    }\n    return result\n}\n\n/*\n * Returns an array containing elements of this array at specified
[indices].\n *^public fun ShortArray.sliceArray(indices: Collection<Int>): ShortArray {\n    val result =
ShortArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] =
this[sourceIndex]\n    }\n    return result\n}\n\n/*\n * Returns an array containing
elements of this array at specified [indices].\n *^public fun IntArray.sliceArray(indices: Collection<Int>):
IntArray {\n    val result = IntArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n
result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n}\n\n/*\n * Returns an array containing elements
of this array at specified [indices].\n *^public fun LongArray.sliceArray(indices: Collection<Int>): LongArray {\n
val result = LongArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n
result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n}\n\n/*\n * Returns an array containing elements
of this array at specified [indices].\n *^public fun FloatArray.sliceArray(indices: Collection<Int>): FloatArray {\n
val result = FloatArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n
result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n}\n\n/*\n * Returns an array containing elements of this array at specified [indices].\n *^public fun
DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray {\n    val result = DoubleArray(indices.size)\n
var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n
return result\n}\n\n/*\n * Returns an array containing elements of this array at specified [indices].\n *^public fun
BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {\n    val result = BooleanArray(indices.size)\n
var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n
return result\n}\n\n/*\n * Returns an array containing elements of this array at specified [indices].\n *^public fun
CharArray.sliceArray(indices: Collection<Int>): CharArray {\n    val result = CharArray(indices.size)\n    var
targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++]
= this[sourceIndex]\n    }\n    return result\n}\n\n/*\n * Returns an array containing elements at indices in the
specified [indices] range.\n *^public fun <T> Array<T>.sliceArray(indices: IntRange): Array<T> {\n    if
(indices.isEmpty()) return copyOfRange(0, 0)\n    return copyOfRange(indices.start, indices.endInclusive +
1)\n}\n\n/*\n * Returns an array containing elements at indices in the specified [indices] range.\n *^public fun
ByteArray.sliceArray(indices: IntRange): ByteArray {\n    if (indices.isEmpty()) return ByteArray(0)\n    return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/*\n * Returns an array containing elements at indices
in the specified [indices] range.\n *^public fun ShortArray.sliceArray(indices: IntRange): ShortArray {\n    if

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size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Float>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.take(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Double>(n)\n
for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n *
Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.take(n: Int): List<Boolean> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return
listOf(this[0])\n var count = 0\n val list = ArrayList<Boolean>(n)\n for (item in this) {\n list.add(item)\n
if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n *
\n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun CharArray.take(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Char>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n *
\n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.takeLast(n: Int): List<T>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val
size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list =
ArrayList<T>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.takeLast(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n ==
0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n
val list = ArrayList<Byte>(n)\n for (index in size - n until size)\n list.add(this[index])\n return
list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is
negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun
ShortArray.takeLast(n: Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\"
}\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return
listOf(this[size - 1])\n val list = ArrayList<Short>(n)\n for (index in size - n until size)\n
list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.takeLast(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val
size = size\n if (n >= size) return toList()\n if (n == 1) return
listOf(this[size - 1])\n val list = ArrayList<Int>(n)\n for (index in size - n until size)\n list.add(this[index])\n
return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if
[n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun
LongArray.takeLast(n: Int): List<Long> {\n require(n >= 0) { \"Requested element count $n is less than zero.\"
}\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return
listOf(this[size - 1])\n val list = ArrayList<Long>(n)\n for (index in size - n until size)\n
list.add(this[index])\n return
list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is
negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun

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FloatArray.takeLast(n: Int): List<Float> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return\n  listOf(this[size - 1])\n  val list = ArrayList<Float>(n)\n  for (index in size - n until size)\n  list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic fun DoubleArray.takeLast(n: Int): List<Double>\n{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val\n  size = size\n  if (n >=\n  size)\n  return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<Double>(n)\n  for (index in\n  size - n until size)\n  list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n]\n * elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic fun BooleanArray.takeLast(n: Int):\n  List<Boolean> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return\n  emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list\n  = ArrayList<Boolean>(n)\n  for (index in size - n until size)\n  list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic fun CharArray.takeLast(n:\n  Int): List<Char> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return\n  emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list\n  = ArrayList<Char>(n)\n  for (index in size - n until size)\n  list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic inline fun <T> Array<out\n  T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n  for (index in lastIndex downTo 0) {\n  if\n  (!predicate(this[index])) {\n  return drop(index + 1)\n  }\n  }\n  return toList()\n}\n\n/**\n * Returns a\n * list containing last elements satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic inline fun ByteArray.takeLastWhile(predicate:\n  (Byte) -> Boolean): List<Byte> {\n  for (index in lastIndex downTo 0) {\n  if\n  (!predicate(this[index])) {\n  return drop(index + 1)\n  }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements\n * satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic\n  inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {\n  for (index in lastIndex\n  downTo 0) {\n  if\n  (!predicate(this[index])) {\n  return drop(index + 1)\n  }\n  }\n  return\n  toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic\n  inline fun IntArray.takeLastWhile(predicate: (Int)\n  -> Boolean): List<Int> {\n  for (index in lastIndex downTo 0) {\n  if\n  (!predicate(this[index])) {\n  return\n  drop(index + 1)\n  }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic\n  inline fun LongArray.takeLastWhile(predicate:\n  (Long) -> Boolean): List<Long> {\n  for (index in lastIndex downTo 0) {\n  if\n  (!predicate(this[index])) {\n  return\n  drop(index + 1)\n  }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements\n * satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic\n  inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {\n  for (index in lastIndex\n  downTo 0) {\n  if\n  (!predicate(this[index])) {\n  return\n  drop(index + 1)\n  }\n  }\n  return\n  toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic\n  inline fun DoubleArray.takeLastWhile(predicate:\n  (Double) -> Boolean): List<Double> {\n  for (index in lastIndex downTo 0) {\n  if\n  (!predicate(this[index])) {\n  return\n  drop(index + 1)\n  }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements\n * satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic\n  inline fun BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n  for (index in

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lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n        return drop(index + 1)\n    }\n }\n return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun CharArray.takeLastWhile(predicate:
(Char) -> Boolean): List<Char> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n
return drop(index
+ 1)\n    }\n }\n return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic inline fun <T>
Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n    val list = ArrayList<T>()\n    for (item in this)
{\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list
containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun ByteArray.takeWhile(predicate: (Byte)
-> Boolean): List<Byte> {\n    val list = ArrayList<Byte>()\n    for (item in this) {\n        if (!predicate(item))\n
break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\npublic inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {\n    val list =
ArrayList<Short>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n
return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun IntArray.takeWhile(predicate: (Int) ->
Boolean): List<Int> {\n    val list = ArrayList<Int>()\n    for (item in this) {\n        if (!predicate(item))\n
break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic inline fun
LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {\n    val list = ArrayList<Long>()\n    for (item
in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying
the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic inline fun
FloatArray.takeWhile(predicate: (Float) -> Boolean): List<Float> {\n    val list = ArrayList<Float>()\n    for (item in
this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list
containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun DoubleArray.takeWhile(predicate:
(Double) -> Boolean): List<Double> {\n    val list = ArrayList<Double>()\n    for (item in this) {\n        if
(!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first
elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun BooleanArray.takeWhile(predicate:
(Boolean) -> Boolean): List<Boolean> {\n    val list = ArrayList<Boolean>()\n    for (item in this) {\n        if
(!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\npublic inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {\n    val list =
ArrayList<Char>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n
return list\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun <T> Array<T>.reverse(): Unit {\n
val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in
0..midPoint) {\n        val tmp = this[index]\n        this[index]
= this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in
the array in-place.\n *\npublic fun ByteArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0)
return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index]
= this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in
the array in-place.\n *\npublic fun ShortArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint <
0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n
this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses

```

```

elements in the array in-place.\n */\npublic fun IntArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] =\n        this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the\n * array in-place.\n */\npublic fun LongArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0)\n        return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index]\n        = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in\n * the array in-place.\n */\npublic fun FloatArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0)\n        return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index]\n        = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in\n * the array in-place.\n */\npublic fun DoubleArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var\n    reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] =\n        this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the\n * array in-place.\n */\npublic fun BooleanArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0)\n        return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index]\n        = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in\n * the array in-place.\n */\npublic fun CharArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0)\n        return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index]\n        = this[reverseIndex]\n\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the\n * specified range in-place.\n */\n\n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param\n * toIndex the end of the range (exclusive) to reverse.\n * @throws IndexOutOfBoundsException if [fromIndex] is\n * less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if\n * [fromIndex] is greater than [toIndex].\n */\n\n * @SinceKotlin("1.4")\npublic fun <T> Array<T>.reverse(fromIndex:\nInt, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint =\n    (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in\n    fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array\n * in the specified range in-place.\n */\n\n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param\n * toIndex the end of the range (exclusive) to reverse.\n * @throws IndexOutOfBoundsException if [fromIndex]\n * is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if\n * [fromIndex] is greater than [toIndex].\n */\n\n * @SinceKotlin("1.4")\npublic fun ByteArray.reverse(fromIndex: Int,\n    toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex\n    + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex\n    until midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] =\n        tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n */\n\n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param\n * toIndex the end of the range (exclusive) to reverse.\n * @throws IndexOutOfBoundsException if [fromIndex]\n * is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if\n * [fromIndex] is greater than [toIndex].\n */\n\n * @SinceKotlin("1.4")\npublic fun ShortArray.reverse(fromIndex: Int,\n    toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex\n    + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex\n    until midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] =\n        tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n */\n\n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param\n * toIndex the end of the range (exclusive)\n * to reverse.\n * @throws IndexOutOfBoundsException if [fromIndex]

```

```

is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\npublic fun IntArray.reverse(fromIndex: Int,
toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex
+ toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex
until midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] =
tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n *
@param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive)
to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\npublic fun LongArray.reverse(fromIndex: Int,
toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex
+ toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex
until midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] =
tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n *
@param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive)
to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\npublic fun FloatArray.reverse(fromIndex: Int,
toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex
+ toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex
until midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] =
tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n *
@param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive)
to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\npublic fun DoubleArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex
+ toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex
until midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] =
tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n *
@param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive)
to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\npublic fun BooleanArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if
(fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index
in fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n
this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the specified
range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end
of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n *\n@SinceKotlin("1.4")\npublic fun CharArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if
(fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n
        val tmp = this[index]\n        this[index] = this[reverseIndex]\n
this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*\n@public fun <T> Array<out T>.reversed(): List<T> {\n    if (isEmpty()) return emptyList()\n    val list =
toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n

```

```

*^public fun ByteArray.reversed(): List<Byte> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

*^public fun ShortArray.reversed(): List<Short> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

*^public fun IntArray.reversed(): List<Int> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

*^public fun LongArray.reversed(): List<Long> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

*^public fun FloatArray.reversed(): List<Float> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

*^public fun DoubleArray.reversed(): List<Double> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

*^public fun BooleanArray.reversed(): List<Boolean> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

*^public fun CharArray.reversed(): List<Char> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

*^public fun <T> Array<T>.reversedArray(): Array<T> {
    if (isEmpty()) return this
    val result = arrayOfNulls(this, size)
    val lastIndex = lastIndexOf()
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

*^public fun ByteArray.reversedArray(): ByteArray {
    if (isEmpty()) return this
    val result = ByteArray(size)
    val lastIndex = lastIndexOf()
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

*^public fun ShortArray.reversedArray(): ShortArray {
    if (isEmpty()) return this
    val result = ShortArray(size)
    val lastIndex = lastIndexOf()
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

*^public fun IntArray.reversedArray(): IntArray {
    if (isEmpty()) return this
    val result = IntArray(size)
    val lastIndex = lastIndexOf()
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

*^public fun LongArray.reversedArray(): LongArray {
    if (isEmpty()) return this
    val result = LongArray(size)
    val lastIndex = lastIndexOf()
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

*^public fun FloatArray.reversedArray(): FloatArray {
    if (isEmpty()) return this
    val result = FloatArray(size)
    val lastIndex = lastIndexOf()
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

*^public fun DoubleArray.reversedArray(): DoubleArray {
    if (isEmpty()) return this
    val result = DoubleArray(size)
    val lastIndex = lastIndexOf()
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

*^public fun BooleanArray.reversedArray(): BooleanArray {
    if (isEmpty()) return this
    val result = BooleanArray(size)
    val lastIndex = lastIndexOf()
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

*^public fun CharArray.reversedArray(): CharArray {
    if (isEmpty()) return this
    val result = CharArray(size)
    val lastIndex = lastIndexOf()
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

*^public fun <T> Array<T>.shuffle(): Unit {
    shuffle(Random())
}

*^public fun ByteArray.shuffle(): Unit {
    shuffle(Random())
}

*^public fun ShortArray.shuffle(): Unit {
    shuffle(Random())
}

*^public fun IntArray.shuffle(): Unit {
    shuffle(Random())
}

```

shuffles elements in this array in-place.\n \*  
[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```

public fun LongArray.shuffle(): Unit {
    shuffle(Random)
}

```

\* Randomly shuffles elements in this array in-place.\n

```

public fun FloatArray.shuffle(): Unit {
    shuffle(Random)
}

```

\* Randomly shuffles elements in this array in-place.\n

```

public fun DoubleArray.shuffle(): Unit {
    shuffle(Random)
}

```

\* Randomly shuffles elements in this array in-place.\n

```

public fun BooleanArray.shuffle(): Unit {
    shuffle(Random)
}

```

\* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n \* See:

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```

public fun <T> Array<T>.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

```

\* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n \* See:

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```

public fun ByteArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

```

\* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n \* See:

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```

public fun ShortArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

```

\* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n \* See:

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```

public fun IntArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

```

\* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n \* See:

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```

public fun LongArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

```

\* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n \* See:

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```

public fun FloatArray.shuffle(random:
Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

```

\* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n \* See:

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```

public fun DoubleArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

```

\* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n \* See:

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```

public fun BooleanArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo

```

```

1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] = this[j]\n    this[j] = copy\n}\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the\n * source of randomness.\n * \n * See:\n * https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n *\n * @SinceKotlin("1.4")\n */\npublic fun CharArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo\n1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] = this[j]\n    this[j] = copy\n}\n}\n\n/**\n * Sorts elements in the array in-place according to natural sort order of the value returned by specified\n * [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each\n * other after sorting.\n *\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -\n> R?): Unit {\n    if (size > 1) sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to natural sort order of the value returned by specified\n * [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each\n * other after sorting.\n *\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline\nselector: (T) -> R?): Unit {\n    if (size > 1) sortWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements\n * in the array in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that\n * equal elements preserve their order relative to each other after sorting.\n *\n */\npublic fun <T : Comparable<T>>\nArray<out T>.sortDescending(): Unit {\n    sortWith(reverseOrder())\n}\n\n/**\n * Sorts elements in the array in-\n * place descending according to their natural sort order.\n *\n */\npublic fun ByteArray.sortDescending(): Unit {\n    if\n(size > 1) {\n    sort()\n    reverse()\n}\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n *\n */\npublic\nfun ShortArray.sortDescending(): Unit {\n    if (size > 1) {\n    sort()\n    reverse()\n}\n}\n\n/**\n * Sorts\n * elements in the array in-place descending according to their natural sort order.\n *\n */\npublic fun\nIntArray.sortDescending(): Unit {\n    if (size > 1) {\n    sort()\n    reverse()\n}\n}\n\n/**\n * Sorts elements\n * in the array in-place descending according to their natural sort order.\n *\n */\npublic fun LongArray.sortDescending():\nUnit {\n    if (size > 1) {\n    sort()\n    reverse()\n}\n}\n\n/**\n * Sorts elements in the array in-place\n * descending according to their natural sort order.\n *\n */\npublic fun FloatArray.sortDescending(): Unit {\n    if (size >\n1) {\n    sort()\n    reverse()\n}\n}\n\n/**\n * Sorts elements in the array in-place descending according to\n * their natural sort order.\n *\n */\npublic fun DoubleArray.sortDescending():\nUnit {\n    if (size > 1) {\n    sort()\n    reverse()\n}\n}\n\n/**\n * Sorts elements in the array in-place\n * descending according to their natural sort order.\n *\n */\npublic fun CharArray.sortDescending(): Unit {\n    if (size >\n1) {\n    sort()\n    reverse()\n}\n}\n\n/**\n * Returns a list of all elements sorted according to their natural\n * sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after\n * sorting.\n *\n */\npublic fun <T : Comparable<T>> Array<out T>.sorted(): List<T> {\n    return\nsortedArray().asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n *\n */\npublic fun\nByteArray.sorted(): List<Byte> {\n    return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n *\n */\npublic fun ShortArray.sorted():\nList<Short> {\n    return toTypedArray().apply { sort()\n}\n}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n *\n */\npublic fun\nIntArray.sorted(): List<Int> {\n    return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all\n * elements sorted according to their natural sort order.\n *\n */\npublic fun LongArray.sorted(): List<Long> {\n    return\ntoTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural\n * sort order.\n *\n */\npublic fun FloatArray.sorted(): List<Float> {\n    return toTypedArray().apply { sort()\n}\n}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n *\n */\npublic fun\nDoubleArray.sorted(): List<Double> {\n    return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a\n * list of all elements sorted according to their natural sort order.\n *\n */\npublic fun CharArray.sorted(): List<Char> {\n    return\ntoTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns\n * an array with all elements of this array sorted according to their natural sort order.\n * \n * The sort is _stable_. It\n * means that equal elements preserve their order relative to each other after sorting.\n *\n */\npublic fun <T :

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Comparable<T>> Array<T>.sortedArray(): Array<T> {\n  if (isEmpty()) return this\n  return this.copyOf().apply {
  sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun ByteArray.sortedArray(): ByteArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply {
  sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun ShortArray.sortedArray(): ShortArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply {
  sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun IntArray.sortedArray(): IntArray {\n
  if (isEmpty()) return this\n  return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements
of this array sorted according to their natural sort order.\n */\npublic fun LongArray.sortedArray(): LongArray {\n
  if (isEmpty()) return this\n  return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun FloatArray.sortedArray(): FloatArray {\n  if
(isEmpty()) return this\n  return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun DoubleArray.sortedArray(): DoubleArray {\n
  if (isEmpty()) return this\n  return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements
of this array sorted according to their natural sort order.\n */\npublic fun CharArray.sortedArray(): CharArray {\n
  if (isEmpty()) return this\n  return
  this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending
according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<T>.sortedArrayDescending():
Array<T> {\n  if (isEmpty()) return this\n  return this.copyOf().apply { sortWith(reverseOrder()) }\n}\n\n/**\n *
Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic
fun ByteArray.sortedArrayDescending(): ByteArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply {
  sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to
their natural sort order.\n */\npublic fun ShortArray.sortedArrayDescending(): ShortArray {\n  if (isEmpty()) return
this\n  return this.copyOf().apply { sortDescending() }\n}\n\n/**\n *
Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic
fun IntArray.sortedArrayDescending(): IntArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply {
  sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to
their natural sort order.\n */\npublic fun LongArray.sortedArrayDescending(): LongArray {\n  if (isEmpty()) return
this\n  return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this
array sorted descending according to their natural sort order.\n */\npublic fun FloatArray.sortedArrayDescending():
FloatArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns
an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun
DoubleArray.sortedArrayDescending(): DoubleArray {\n  if (isEmpty())
  return this\n  return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted descending according to their natural sort order.\n */\npublic fun
CharArray.sortedArrayDescending(): CharArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply {
  sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according the specified
[comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n */\npublic fun <T> Array<out T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T>
{\n  if (isEmpty()) return this\n  return this.copyOf().apply { sortWith(comparator) }\n}\n\n/**\n * Returns a list
of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n *
The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *
\n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <T, R : Comparable<R>>
Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n  return
  sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function.\n * \n * @sample
  samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>>

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ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {\n return  
 sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order  
 of the value returned by specified [selector] function.\n \* \n \* @sample  
 samples.collections.Collections.Sorting.sortedBy\n \*\npublic inline fun <R : Comparable<R>>

ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {\n return  
 sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements  
 sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample  
 samples.collections.Collections.Sorting.sortedBy\n \*\npublic inline fun <R : Comparable<R>>

IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {\n return  
 sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order  
 of the value returned by specified [selector] function.\n \* \n \* @sample  
 samples.collections.Collections.Sorting.sortedBy\n \*\npublic inline fun <R : Comparable<R>>

LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {\n return  
 sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order  
 of the value returned by specified [selector] function.\n \* \n \* @sample  
 samples.collections.Collections.Sorting.sortedBy\n \*\npublic inline fun <R : Comparable<R>>

FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float>  
 {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to  
 natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample  
 samples.collections.Collections.Sorting.sortedBy\n \*\npublic inline fun <R : Comparable<R>>

DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {\n return  
 sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order  
 of the value returned by specified [selector] function.\n \* \n \* @sample  
 samples.collections.Collections.Sorting.sortedBy\n \*\npublic inline fun <R : Comparable<R>>

BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {\n return  
 sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order  
 of the value returned by specified [selector] function.\n \* \n \* @sample  
 samples.collections.Collections.Sorting.sortedBy\n \*\npublic

inline fun <R : Comparable<R>> CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {\n return  
 sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural  
 sort order of the value returned by specified [selector] function.\n \* \n \* The sort is `_stable_`. It means that equal  
 elements preserve their order relative to each other after sorting.\n \*\npublic inline fun <T, R : Comparable<R>>

Array<out T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n return  
 sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
 according to natural sort order of the value returned by specified [selector] function.\n \*\npublic inline fun <R :  
 Comparable<R>> ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {\n return  
 sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
 according to

natural sort order of the value returned by specified [selector] function.\n \*\npublic inline fun <R :  
 Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {\n return  
 sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
 according to natural sort order of the value returned by specified [selector] function.\n \*\npublic inline fun <R :  
 Comparable<R>> IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {\n return  
 sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
 according to natural sort order of the value returned by specified [selector] function.\n \*\npublic inline fun <R :  
 Comparable<R>> LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {\n return  
 sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
 according to natural sort order

of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>>  
FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {\n return  
sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R :  
Comparable<R>> DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {\n  
return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R :  
Comparable<R>> BooleanArray.sortedByDescending(crossinline selector: (Boolean) -> R?): List<Boolean> {\n  
return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
according to natural sort  
order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>>  
CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> {\n return  
sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
according to their natural sort order.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order  
relative to each other after sorting.\n \*/\npublic fun <T : Comparable<T>> Array<out T>.sortedDescending():  
List<T> {\n return sortedWith(reverseOrder())\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
according to their natural sort order.\n \*/\npublic fun ByteArray.sortedDescending(): List<Byte> {\n return  
copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their  
natural sort order.\n \*/\npublic fun ShortArray.sortedDescending(): List<Short> {\n return copyOf().apply { sort()  
}.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \*/\npublic fun  
IntArray.sortedDescending(): List<Int> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list  
of all elements sorted descending according to their natural sort order.\n \*/\npublic fun  
LongArray.sortedDescending(): List<Long> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns  
a list of all elements sorted descending according to their natural sort order.\n \*/\npublic fun  
FloatArray.sortedDescending(): List<Float> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns  
a list of all elements sorted descending according to their natural sort order.\n \*/\npublic fun  
DoubleArray.sortedDescending(): List<Double> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \*  
Returns a list of all elements sorted descending according to their natural sort order.\n \*/\npublic fun  
CharArray.sortedDescending():  
List<Char> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted  
according to the specified [comparator].\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their  
order relative to each other after sorting.\n \*/\npublic fun <T> Array<out T>.sortedWith(comparator:  
Comparator<in T>): List<T> {\n return sortedArrayWith(comparator).asList()\n}\n\n/\*\*\n \* Returns a list of all  
elements sorted according to the specified [comparator].\n \*/\npublic fun ByteArray.sortedWith(comparator:  
Comparator<in Byte>): List<Byte> {\n return toTypedArray().apply { sortWith(comparator  
}.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun  
ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> {\n return toTypedArray().apply {  
sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified  
[comparator].\n \*/\npublic  
fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> {\n return toTypedArray().apply {  
sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified  
[comparator].\n \*/\npublic fun LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {\n return  
toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according  
to the specified [comparator].\n \*/\npublic fun FloatArray.sortedWith(comparator: Comparator<in Float>):  
List<Float> {\n return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all  
elements sorted according to the specified [comparator].\n \*/\npublic fun DoubleArray.sortedWith(comparator:  
Comparator<in Double>): List<Double> {\n return toTypedArray().apply { sortWith(comparator)

}.asList()\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun BooleanArray.sortedWith(comparator: Comparator<in Boolean>): List<Boolean> {\n return toTypedArray().apply { sortedWith(comparator) }\n}.asList()\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun CharArray.sortedWith(comparator: Comparator<in Char>): List<Char> {\n return toTypedArray().apply { sortedWith(comparator) }\n}.asList()\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun <T> Array<out T>.asList(): List<T>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun ByteArray.asList(): List<Byte>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun ShortArray.asList(): List<Short>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun IntArray.asList(): List<Int>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun LongArray.asList(): List<Long>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun FloatArray.asList(): List<Float>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun DoubleArray.asList(): List<Double>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun BooleanArray.asList(): List<Boolean>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun CharArray.asList(): List<Char>\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*deeply\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* If two corresponding elements are nested arrays, they are also compared deeply.\n \* If any of arrays contains itself on any nesting level the behavior is undefined.\n \* \n \* The elements of other types are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*/\n\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic expect infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*deeply\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The specified arrays are also considered deeply equal if both are `null`.\n \* \n \* If two corresponding elements are nested arrays, they are also compared deeply.\n \* If any of arrays contains itself on any nesting level the behavior is undefined.\n \* \n \* The elements of other types are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*/\n\n@SinceKotlin("1.4")\npublic expect infix fun <T> Array<out T>?.contentDeepEquals(other: Array<out T>?): Boolean\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n \* Nested arrays are treated as lists too.\n \* \n \* If any of arrays contains itself on any nesting level the behavior is undefined.\n \*/\n\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic expect fun <T> Array<out T>.contentDeepHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n \* Nested arrays are treated as lists too.\n \* \n \* If any of arrays contains itself on any nesting level the behavior is undefined.\n \*/\n\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>?.contentDeepHashCode(): Int\n\n/\*\*\n \* Returns a string representation of the contents of this array as if it is a [List].\n \* \n \* Nested arrays are treated as lists too.\n \* \n \* If any of arrays contains itself on any nesting level that reference\n \* is rendered as `"[...]"` to prevent recursion.\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n \*/\n\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic expect fun <T> Array<out T>.contentDeepToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of this array as if it is a [List].\n \* \n \* Nested arrays are treated as lists too.\n \* \n \* If any of arrays contains itself on any nesting level that reference\n \* is rendered as `"[...]"` to prevent recursion.\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n \*/\n\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>?.contentDeepToString(): String\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*/\n\n@Deprecated("Use Kotlin compiler 1.4 to

avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean\n\n\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun ByteArray.contentEquals(other: ByteArray): Boolean\n\n\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun ShortArray.contentEquals(other: ShortArray): Boolean\n\n\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun IntArray.contentEquals(other: IntArray): Boolean\n\n\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun LongArray.contentEquals(other: LongArray): Boolean\n\n\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun FloatArray.contentEquals(other: FloatArray): Boolean\n\n\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean\n\n\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean\n\n\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun CharArray.contentEquals(other: CharArray): Boolean\n\n\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n

\* The elements are compared for equality with the [equals][Any.equals] function.

\* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

`@SinceKotlin("1.4")\npublic expect infix fun <T> Array<out T>?.contentEquals(other: Array<out T>?): Boolean`

\* Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

\* The elements are compared for equality with the [equals][Any.equals] function.

\* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

`@SinceKotlin("1.4")\npublic expect infix fun ByteArray?.contentEquals(other: ByteArray?): Boolean`

\* Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

\* The elements are compared for equality with the [equals][Any.equals] function.

\* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

`@SinceKotlin("1.4")\npublic expect infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean`

\* Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

\* The elements are compared for equality with the [equals][Any.equals] function.

\* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

`@SinceKotlin("1.4")\npublic expect infix fun IntArray?.contentEquals(other: IntArray?): Boolean`

\* Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

\* The elements are compared for equality with the [equals][Any.equals] function.

\* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

`@SinceKotlin("1.4")\npublic expect infix fun LongArray?.contentEquals(other: LongArray?): Boolean`

\* Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

\* The elements are compared for equality with the [equals][Any.equals] function.

\* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

`@SinceKotlin("1.4")\npublic expect infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean`

\* Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

\* The elements are compared for equality with the [equals][Any.equals] function.

\* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

`@SinceKotlin("1.4")\npublic expect infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean`

\* Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

\* The elements are compared for equality with the [equals][Any.equals] function.

\* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

`@SinceKotlin("1.4")\npublic expect infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean`

\* Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

\* The elements are compared for equality with the [equals][Any.equals] function.

\* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

`@SinceKotlin("1.4")\npublic expect infix fun CharArray?.contentEquals(other: CharArray?): Boolean`

\* Returns a hash code based on the contents of this array as if it is [List].

`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun <T> Array<out T>.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun ByteArray.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun ShortArray.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun`

warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun  
IntArray.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is  
[List].\n \*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation  
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun  
LongArray.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is  
[List].\n \*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation  
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun  
FloatArray.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is  
[List].\n \*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation  
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun  
DoubleArray.contentHashCode():  
Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@Deprecated("Use  
Kotlin compiler 1.4 to avoid deprecation  
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun  
BooleanArray.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is  
[List].\n \*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation  
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun  
CharArray.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is  
[List].\n \*\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.4")\npublic expect  
fun ByteArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is  
[List].\n \*\n@SinceKotlin("1.4")\npublic expect fun ShortArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a  
hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.4")\npublic expect fun  
IntArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is  
[List].\n \*\n@SinceKotlin("1.4")\npublic expect fun LongArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a  
hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.4")\npublic expect fun  
FloatArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is  
[List].\n \*\n@SinceKotlin("1.4")\npublic expect fun DoubleArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a  
hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.4")\npublic expect fun  
BooleanArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array  
as if it is [List].\n \*\n@SinceKotlin("1.4")\npublic expect fun CharArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a string  
representation of the contents of the specified array as if it is [List].\n \*\n\n \* @sample  
samples.collections.Arrays.ContentOperations.contentToString\n \*\n@Deprecated("Use Kotlin compiler 1.4 to  
avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic  
expect fun <T> Array<out T>.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of  
the specified array as if it is [List].\n \*\n\n \* @sample  
samples.collections.Arrays.ContentOperations.contentToString\n \*\n@Deprecated("Use Kotlin compiler 1.4 to  
avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic  
expect fun ByteArray.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the  
specified array as if it is [List].\n \*\n\n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation  
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun  
ShortArray.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array  
as if it is [List].\n \*\n\n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation  
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun  
IntArray.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as  
if it is [List].\n \*\n\n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n

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*@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")@SinceKotlin("1.1\")@DeprecatedSinceKotlin(hiddenSince = \"1.4\")public expect fun
LongArray.contentToString():
String\n\n**\n * Returns a string representation of the
contents of the specified array as if it is [List].\n * \n *
@sample samples.collections.Arrays.ContentOperations.contentToString\n
*@Deprecated("Use Kotlin compiler
1.4 to avoid deprecation warning.\")@SinceKotlin("1.1\")@DeprecatedSinceKotlin(hiddenSince =
\"1.4\")public expect fun FloatArray.contentToString(): String\n\n**\n * Returns a string representation of the
contents of the specified array as if it is [List].\n * \n *
@sample
samples.collections.Arrays.ContentOperations.contentToString\n
*@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.\")@SinceKotlin("1.1\")@DeprecatedSinceKotlin(hiddenSince = \"1.4\")public
expect fun DoubleArray.contentToString(): String\n\n**\n * Returns a string representation of the contents of the
specified array as if it is [List].\n * \n *
@sample samples.collections.Arrays.ContentOperations.contentToString\n
*@Deprecated("Use Kotlin
compiler 1.4 to avoid deprecation warning.\")@SinceKotlin("1.1\")@DeprecatedSinceKotlin(hiddenSince =
\"1.4\")public expect fun BooleanArray.contentToString(): String\n\n**\n * Returns a string representation of the
contents of the specified array as if it is [List].\n * \n *
@sample
samples.collections.Arrays.ContentOperations.contentToString\n
*@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.\")@SinceKotlin("1.1\")@DeprecatedSinceKotlin(hiddenSince = \"1.4\")public
expect fun CharArray.contentToString(): String\n\n**\n * Returns a string representation of the contents of the
specified array as if it is [List].\n * \n *
@sample samples.collections.Arrays.ContentOperations.contentToString\n
*@SinceKotlin("1.4\")public expect fun <T> Array<out T>?.contentToString(): String\n\n**\n * Returns a
string representation of the contents of the specified array as if it is [List].\n * \n *
@sample
samples.collections.Arrays.ContentOperations.contentToString\n
*@SinceKotlin("1.4\")public expect fun ByteArray?.contentToString(): String\n\n**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n * \n *
@sample
samples.collections.Arrays.ContentOperations.contentToString\n
*@SinceKotlin("1.4\")public expect fun ShortArray?.contentToString(): String\n\n**\n * Returns a string representation of the contents of the specified
array as if it is [List].\n * \n *
@sample samples.collections.Arrays.ContentOperations.contentToString\n
*@SinceKotlin("1.4\")public expect fun IntArray?.contentToString(): String\n\n**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n * \n *
@sample
samples.collections.Arrays.ContentOperations.contentToString\n
*@SinceKotlin("1.4\")public expect fun LongArray?.contentToString(): String\n\n**\n * Returns a string representation of the contents of the specified
array as if it is [List].\n * \n *
@sample
samples.collections.Arrays.ContentOperations.contentToString\n
*@SinceKotlin("1.4\")public expect fun FloatArray?.contentToString(): String\n\n**\n * Returns a string representation of the contents of the specified
array as if it is [List].\n * \n *
@sample samples.collections.Arrays.ContentOperations.contentToString\n
*@SinceKotlin("1.4\")public expect fun DoubleArray?.contentToString(): String\n\n**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n * \n *
@sample
samples.collections.Arrays.ContentOperations.contentToString\n
*@SinceKotlin("1.4\")public expect fun BooleanArray?.contentToString(): String\n\n**\n * Returns a string representation of the contents of the specified
array as if it is [List].\n * \n *
@sample samples.collections.Arrays.ContentOperations.contentToString\n
*@SinceKotlin("1.4\")public expect fun CharArray?.contentToString(): String\n\n**\n * Copies this array or
its subrange into the [destination]
array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the
subrange so that it overlaps with the destination range.\n * \n *
@param destination the array to copy to.\n *
@param destinationOffset the position in the [destination] array to copy to, 0 by default.\n *
@param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n *
@param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException or

```



[destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun

FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray\n\n/\*\*\n

\* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination]

array.\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't

fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException]

when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOf\n \*/\n\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.copyOf(): Array<T>\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.copyOf\n \*\npublic expect fun ByteArray.copyOf():  
 ByteArray\n\n/\*\*\n \* Returns new array  
 which is a copy of the original array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOf\n  
 \*\npublic expect fun ShortArray.copyOf(): ShortArray\n\n/\*\*\n \* Returns new array which is a copy of the original  
 array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOf\n \*\npublic expect fun  
 IntArray.copyOf(): IntArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOf\n \*\npublic expect fun LongArray.copyOf():  
 LongArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOf\n \*\npublic expect fun FloatArray.copyOf():  
 FloatArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOf\n \*\npublic expect fun DoubleArray.copyOf():  
 DoubleArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n  
 \* @sample samples.collections.Arrays.CopyOfOperations.copyOf\n \*\npublic expect fun BooleanArray.copyOf():  
 BooleanArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOf\n \*\npublic expect fun CharArray.copyOf():  
 CharArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \*  
 The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the  
 size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of  
 the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*\npublic expect fun  
 ByteArray.copyOf(newSize: Int): ByteArray\n\n/\*\*\n \* Returns new array which is a copy of the original array,  
 resized to the given [newSize].\n \*  
 The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than  
 the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size  
 of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*\npublic expect fun  
 ShortArray.copyOf(newSize: Int): ShortArray\n\n/\*\*\n \* Returns new array which is a copy of the original array,  
 resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n  
 \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If  
 [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero  
 values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n  
 \*\npublic expect fun IntArray.copyOf(newSize: Int): IntArray\n\n/\*\*\n \* Returns new array which is a copy of the  
 original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values  
 if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the  
 [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are  
 filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n  
 \*\npublic expect fun LongArray.copyOf(newSize: Int): LongArray\n\n/\*\*\n \* Returns new array which is a copy of  
 the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero  
 values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the  
 [newSize].\n \* - If [newSize] is greater than the size of the original  
 array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*\npublic expect fun  
 FloatArray.copyOf(newSize: Int): FloatArray\n\n/\*\*\n \* Returns new array which is a copy of the original array,  
 resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n  
 \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If  
 [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero  
 values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*\npublic  
 expect fun DoubleArray.copyOf(newSize: Int): DoubleArray\n\n/\*\*\n \* Returns new array which is a copy of the

original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with `false` values if necessary.\n

\* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun BooleanArray.copyOf(newSize: Int): BooleanArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with null char (`\u0000`) values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\u0000`) values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun CharArray.copyOf(newSize: Int): CharArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with `null` values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n \*/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.copyOf(newSize: Int): Array<T?>\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T>\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun

FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray\n\n\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray\n\n\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray\n\n\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray\n\n\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size):



```

inline fun IntArray.isNotEmpty(): Boolean {
    return !isEmpty()
}
/** Returns `true` if the array is not empty.
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.isNotEmpty(): Boolean {
    return !isEmpty()
}
/** Returns `true` if the array is not empty.
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.isNotEmpty(): Boolean {
    return !isEmpty()
}
/** Returns `true` if the array is not empty.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.isNotEmpty(): Boolean {
    return !isEmpty()
}
/** Returns `true` if the array is not empty.
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.isNotEmpty(): Boolean {
    return !isEmpty()
}
/** Returns the last valid index for the array.
 */
public val <T> Array<out T>.lastIndex: Int
    get() = size - 1
/** Returns the last valid index for the array.
 */
public val ByteArray.lastIndex: Int
    get() = size - 1
/** Returns the last valid index for the array.
 */
public val ShortArray.lastIndex: Int
    get() = size - 1
/** Returns the last valid index for the array.
 */
public val IntArray.lastIndex: Int
    get() = size - 1
/** Returns the last valid index for the array.
 */
public val LongArray.lastIndex: Int
    get() = size - 1
/** Returns the last valid index for the array.
 */
public val FloatArray.lastIndex: Int
    get() = size - 1
/** Returns the last valid index for the array.
 */
public val DoubleArray.lastIndex: Int
    get() = size - 1
/** Returns the last valid index for the array.
 */
public val BooleanArray.lastIndex: Int
    get() = size - 1
/** Returns the last valid index for the array.
 */
public val CharArray.lastIndex: Int
    get() = size - 1
/** Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NO_ACTUAL_FOR_EXPECT")
public expect operator fun <T> Array<T>.plus(element: T): Array<T>
/** Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun ByteArray.plus(element: Byte): ByteArray
/** Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun ShortArray.plus(element: Short): ShortArray
/** Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun IntArray.plus(element: Int): IntArray
/** Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun LongArray.plus(element: Long): LongArray
/** Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun FloatArray.plus(element: Float): FloatArray
/** Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun DoubleArray.plus(element: Double): DoubleArray
/** Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun BooleanArray.plus(element: Boolean): BooleanArray
/** Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun CharArray.plus(element: Char): CharArray
/** Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@Suppress("NO_ACTUAL_FOR_EXPECT")
public expect operator fun <T> Array<T>.plus(elements: Collection<T>): Array<T>
/** Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
public expect operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray
/** Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
public expect operator fun ShortArray.plus(elements: Collection<Short>): ShortArray
/** Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
public expect operator fun IntArray.plus(elements: Collection<Int>): IntArray
/** Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
public expect operator fun LongArray.plus(elements: Collection<Long>): LongArray
/** Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
public expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray

```

\* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.  
`public expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] collection.  
`public expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] collection.  
`public expect operator fun CharArray.plus(elements: Collection<Char>): CharArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] array.  
`@Suppress("NO_ACTUAL_FOR_EXPECT") public expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>`  
Returns an array containing all elements of the original array and then all elements of the given [elements] array.  
`public expect operator fun ByteArray.plus(elements: ByteArray): ByteArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] array.  
`public expect operator fun ShortArray.plus(elements: ShortArray): ShortArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] array.  
`public expect operator fun IntArray.plus(elements: IntArray): IntArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] array.  
`public expect operator fun LongArray.plus(elements: LongArray): LongArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] array.  
`public expect operator fun FloatArray.plus(elements: FloatArray): FloatArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] array.  
`public expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] array.  
`public expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] array.  
`public expect operator fun CharArray.plus(elements: CharArray): CharArray`  
Returns an array containing all elements of the original array and then the given [element].  
`@Suppress("NO_ACTUAL_FOR_EXPECT") public expect fun <T> Array<T>.plusElement(element: T): Array<T>`  
Sorts the array in-place.  
`@sample samples.collections.Arrays.Sorting.sortArray`  
`public expect fun IntArray.sort(): Unit`  
Sorts the array in-place.  
`@sample samples.collections.Arrays.Sorting.sortArray`  
`public expect fun LongArray.sort(): Unit`  
Sorts the array in-place.  
`@sample samples.collections.Arrays.Sorting.sortArray`  
`public expect fun ByteArray.sort(): Unit`  
Sorts the array in-place.  
`@sample samples.collections.Arrays.Sorting.sortArray`  
`public expect fun ShortArray.sort(): Unit`  
Sorts the array in-place.  
`@sample samples.collections.Arrays.Sorting.sortArray`  
`public expect fun DoubleArray.sort(): Unit`  
Sorts the array in-place.  
`@sample samples.collections.Arrays.Sorting.sortArray`  
`public expect fun FloatArray.sort(): Unit`  
Sorts the array in-place.  
`@sample samples.collections.Arrays.Sorting.sortArray`  
`public expect fun CharArray.sort(): Unit`  
Sorts the array in-place according to the natural order of its elements.  
`@sample samples.collections.Arrays.Sorting.sortArray`  
`public expect fun <T : Comparable<T>> Array<out T>.sort(): Unit`  
Sorts a range in the array in-place.  
`@sample samples.collections.Arrays.Sorting.sortArray`  
`public expect fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit`  
Sorts a range in the array in-place according to the natural order of its elements.  
`@sample samples.collections.Arrays.Sorting.sortArray`  
`public expect fun <T : Comparable<T>> Array<out T>.sortRangeOfArrayOfComparable`  
`@SinceKotlin("1.4") public expect fun <T : Comparable<T>> Array<out T>.sortRangeOfArrayOfComparable(fromIndex: Int = 0, toIndex: Int = size): Unit`  
Sorts a range in the array in-place according to the natural order of its elements.

in the array in-place.\n \* \n \*

@param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \* @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \* \n \* @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n \* \n \* @SinceKotlin("1.4")\n public expect fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n \* \n \* Sorts a range in the array in-place.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \* @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \* \n \* @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n \* \n \* @SinceKotlin("1.4")\n public expect fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n \* \n \* Sorts a range in the array in-place.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \* @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \* \n \* @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n \* \n \* @SinceKotlin("1.4")\n public expect fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n \* \n \* Sorts a range in the array in-place.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \* @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \* \n \* @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n \* \n \* @SinceKotlin("1.4")\n public expect fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n \* \n \* Sorts a range in the array in-place.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \* @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \* \n \* @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n \* \n \* @SinceKotlin("1.4")\n public expect fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n \* \n \* Sorts a range in the array in-place.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \* @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \* \n \* @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n \* \n \* @SinceKotlin("1.4")\n public expect fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n \* \n \* Sorts a range in the array in-place.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \* @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \* \n \* @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n \* \n \* @SinceKotlin("1.4")\n public expect fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n \* \n \* Sorts elements of the array in the specified range in-place.\n \* \n \* The elements are sorted descending according to their natural sort order.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort.\n \* @param toIndex the end of the range (exclusive) to sort.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \* \n \* @SinceKotlin("1.4")\n public fun <T : Comparable<T>> Array<out T>.sortDescending(fromIndex: Int, toIndex: Int): Unit { \n sortWith(reverseOrder(), fromIndex, toIndex)\n }

\* Sorts elements of the array in the specified range in-place.\n \* The elements are sorted descending according to their natural sort order.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort.\n \* @param toIndex the end of the range (exclusive) to sort.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*^\n@SinceKotlin("1.4")\npublic fun ByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/\*\*\n \* Sorts elements of the array in the specified range in-place.\n \* The elements are sorted descending according to their natural sort order.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort.\n \* @param toIndex the end of the range (exclusive) to sort.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*^\n@SinceKotlin("1.4")\npublic fun ShortArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/\*\*\n \* Sorts elements of the array in the specified range in-place.\n \* The elements are sorted descending according to their natural sort order.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort.\n \* @param toIndex the end of the range (exclusive) to sort.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*^\n@SinceKotlin("1.4")\npublic fun IntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/\*\*\n \* Sorts elements of the array in the specified range in-place.\n \* The elements are sorted descending according to their natural sort order.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort.\n \* @param toIndex the end of the range (exclusive) to sort.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*^\n@SinceKotlin("1.4")\npublic fun LongArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/\*\*\n \* Sorts elements of the array in the specified range in-place.\n \* The elements are sorted descending according to their natural sort order.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort.\n \* @param toIndex the end of the range (exclusive) to sort.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*^\n@SinceKotlin("1.4")\npublic fun FloatArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/\*\*\n \* Sorts elements of the array in the specified range in-place.\n \* The elements are sorted descending according to their natural sort order.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort.\n \* @param toIndex the end of the range (exclusive) to sort.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*^\n@SinceKotlin("1.4")\npublic fun DoubleArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/\*\*\n \* Sorts elements of the array in the specified range in-place.\n \* The elements are sorted descending according to their natural sort order.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort.\n \* @param toIndex the end of the range (exclusive) to sort.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*^\n@SinceKotlin("1.4")\npublic fun CharArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/\*\*\n \* Sorts the array in-place according to the order specified by the given [comparator].\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*/\npublic expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit\n\n/\*\*\n \* Sorts a range in the array in-place with the given [comparator].\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \* @param toIndex the end of the range

(exclusive) to sort, size of this array by default.

`@throws IndexOutOfBoundsException` if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

`@throws IllegalArgumentException` if [fromIndex] is greater than [toIndex].

`public expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit`

`public fun Array<out Boolean>.toBooleanArray(): BooleanArray` {  
return BooleanArray(size) { index -> this[index] } }

`public fun Array<out Byte>.toByteArray(): ByteArray` {  
return ByteArray(size) { index -> this[index] } }

`public fun Array<out Char>.toCharArray(): CharArray` {  
return CharArray(size) { index -> this[index] } }

`public fun Array<out Double>.toDoubleArray(): DoubleArray` {  
return DoubleArray(size) { index -> this[index] } }

`public fun Array<out Float>.toFloatArray(): FloatArray` {  
return FloatArray(size) { index -> this[index] } }

`public fun Array<out Int>.toIntArray(): IntArray` {  
return IntArray(size) { index -> this[index] } }

`public fun Array<out Long>.toLongArray(): LongArray` {  
return LongArray(size) { index -> this[index] } }

`public fun Array<out Short>.toShortArray(): ShortArray` {  
return ShortArray(size) { index -> this[index] } }

`public expect fun ByteArray.toTypedArray(): Array<Byte>`

`public expect fun ShortArray.toTypedArray(): Array<Short>`

`public expect fun IntArray.toTypedArray(): Array<Int>`

`public expect fun LongArray.toTypedArray(): Array<Long>`

`public expect fun FloatArray.toTypedArray(): Array<Float>`

`public expect fun DoubleArray.toTypedArray(): Array<Double>`

`public expect fun BooleanArray.toTypedArray(): Array<Boolean>`

`public expect fun CharArray.toTypedArray(): Array<Char>`

`public fun [transform] function applied to elements of the given array. If any of two pairs would have the same key the last one gets added to the map. The returned map preserves the entry iteration order of the original array.`

`@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives`

`public inline fun <T, K, V> Array<out T>.associate(transform: (T) -> Pair<K, V>): Map<K, V>` {  
val capacity = mapCapacity(size).coerceAtLeast(16)  
return associateTo(LinkedHashMap<K, V>(capacity), transform)}

`public fun [transform] function applied to elements of the given array. If any of two pairs would have the same key the last one gets added to the map. The returned map preserves the entry iteration order of the original array.`

`@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives`

`public inline fun <K, V> ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V>` {  
val capacity = mapCapacity(size).coerceAtLeast(16)  
return associateTo(LinkedHashMap<K, V>(capacity), transform)}

`public fun [transform] function applied to elements of the given array. If any of two pairs would have the same key the last one gets added to the map. The returned map preserves the entry iteration order of the original array.`

`@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives`

`public inline fun <K, V> ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V>` {  
val capacity = mapCapacity(size).coerceAtLeast(16)  
return associateTo(LinkedHashMap<K, V>(capacity), transform)}

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transform)\n}\n/n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K,
V>(capacity), transform)\n}\n/n/**\n * Returns a [Map] containing key-value pairs provided by [transform]
function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n/n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n    val
capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n/n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n/n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements
of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n *
The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n/n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K,
V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K,
V>(capacity), transform)\n}\n/n/**\n * Returns a [Map] containing the elements from the given array indexed by the
key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry
iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <T, K>
Array<out T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, T>(capacity),
keySelector)\n}\n/n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same
key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry
iteration order of the original array.\n * \n * @sample

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samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Byte>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short>
{\n  val capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K,
Short>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed
by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Int>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have
the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the
entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Long>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
FloatArray.associateBy(keySelector: (Float) -> K):
Map<K, Float> {\n  val capacity = mapCapacity(size).coerceAtLeast(16)\n  return
associateByTo(LinkedHashMap<K, Float>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the
elements from the given array indexed by the key\n * returned from [keySelector] function applied to each
element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to
the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Double>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Boolean>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration

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order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
CharArray.associateBy(keySelector:
(Char) -> K): Map<K, Char> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return
associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the
values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given
array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline
fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n    val
capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed
by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same
key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry
iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline
fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {\n    val
capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*/\npublic inline fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V):
Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return
associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map]
containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of
the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets
added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*/\npublic inline fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V>
{\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n
return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a
[Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to
elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last
one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n *
\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*/\npublic inline fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V):
Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return
associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map]
containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of
the given array.\n * \n * If
any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline
fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {\n    val
capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity),

```

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keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*/\npublic inline fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) ->
V): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return
associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map]
containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of
the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets
added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*/\npublic inline fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) ->
V): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return
associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*/\npublic inline fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n    val
capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value
pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and
value is the element itself.\n * \n * If
any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n
*/\npublic inline fun <T,
K, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n    for
(element in this) {\n        destination.put(keySelector(element), element)\n    }\n    return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If
any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n
*/\npublic inline fun <K,
M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M
{\n    for (element in this) {\n        destination.put(keySelector(element), element)\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is
provided by the [keySelector] function applied to each element of the given array\n * and value is the element
itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to
the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n
*/\npublic inline fun <K, M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) ->
K): M {\n    for (element in this) {\n        destination.put(keySelector(element), element)\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is
provided by the [keySelector] function applied to each element of the given array\n * and value is
the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets
added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n
*/\npublic inline fun <K, M : MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int)
-> K): M {\n    for (element in this) {\n        destination.put(keySelector(element), element)\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is

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provided by the [keySelector] function applied to each element of the given array\n \* and value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n \*/\npublic inline fun <K, M : MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function applied to each element of the given array\n \* and value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n \*/\npublic inline fun <K, M : MutableMap<in K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function applied to each element of the given array\n \* and value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n \*/\npublic inline fun <K, M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function applied to each element of the given array\n \* and value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n \*/\npublic inline fun <K, M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function applied to each element of the given array\n \* and value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n \*/\npublic inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function and\n \* and value is provided by the [valueTransform] function applied to elements of the given array.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n \*/\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function and\n \* and value is provided by the [valueTransform] function applied to elements of the given array.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n \*/\npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector]

```

function and
 * and value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector:
(Short) -> K, valueTransform:
(Short) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
valueTransform(element))
    }
    return destination
}
 * Populates and returns the [destination] mutable
map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform]
function applied to elements of the given array.
 * If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.
 * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K,
valueTransform: (Int) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
valueTransform(element))
    }
    return destination
}
 * Populates and returns the [destination] mutable
map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform]
function applied to elements of the given array.
 * If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.
 * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) ->
K, valueTransform: (Long) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
valueTransform(element))
    }
    return destination
}
 * Populates and returns the [destination] mutable
map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform]
function applied to elements of the given array.
 * If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.
 * @sample
the last one gets added to the map.
 * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) ->
K, valueTransform: (Float) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
valueTransform(element))
    }
    return destination
}
 * Populates and returns the [destination] mutable
map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform]
function applied to elements of the given array.
 * If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.
 * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination:
M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
 * Populates
and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector]
function and
 * and value is provided by the [valueTransform]
function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M,
keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
 * Populates
and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector]
function and
 * and value is provided by the [valueTransform]
function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform

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and returns the [destination] mutable map with key-value pairs\n \* provided by [transform] function applied to each element of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n \*/\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination}\n}\n\n/\*\*\n \* Returns a [Map] where keys are elements from the given array and values are\n \* produced by the [valueSelector] function applied to each element.\n \* \n \* If any two elements are equal, the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.associateWith\n \*/\n@SinceKotlin("1.4")\npublic inline fun <K, V> Array<out K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result = LinkedHashMap<K, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/\*\*\n \* Returns a [Map] where keys are elements from the given array and values are\n \* produced by the [valueSelector] function applied to each element.\n \* \n \* If any two elements are equal, the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.associateWith\n \*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V> ByteArray.associateWith(valueSelector: (Byte) -> V): Map<Byte, V> {\n val result = LinkedHashMap<Byte, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/\*\*\n \* Returns a [Map] where keys are elements from the given array and values are\n \* produced by the [valueSelector] function applied to each element.\n \* \n \* If any two elements are equal, the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.associateWith\n \*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V> ShortArray.associateWith(valueSelector: (Short) -> V): Map<Short, V> {\n val result = LinkedHashMap<Short, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/\*\*\n \* Returns a [Map] where keys are elements from the given array and values are\n \* produced by the [valueSelector] function applied to each element.\n \* \n \* If any two elements are equal, the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.associateWith\n \*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V> IntArray.associateWith(valueSelector: (Int) -> V): Map<Int, V> {\n val result = LinkedHashMap<Int, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/\*\*\n \* Returns a [Map] where keys are elements from the given array and values are\n \* produced by the [valueSelector] function applied to each element.\n \* \n \* If any two elements are equal, the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.associateWith\n \*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V> LongArray.associateWith(valueSelector: (Long) -> V): Map<Long, V> {\n val result = LinkedHashMap<Long, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/\*\*\n \* Returns a [Map] where keys are elements from the given array and values are\n \* produced by the [valueSelector] function applied to each element.\n \* \n \* If any two elements are equal, the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.associateWith\n \*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V> FloatArray.associateWith(valueSelector: (Float) -> V): Map<Float, V> {\n val result = LinkedHashMap<Float, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/\*\*\n \* Returns a [Map] where keys are elements from the given array and values are\n \* produced by the [valueSelector] function applied to each element.\n \* \n \* If any two

elements are equal, the last one gets added to the map.

`fun <V> associateWith(array: List<T>, valueSelector: (T) -> V): Map<T, V>`

The returned map preserves the entry iteration order of the original array.

`@sample samples.collections.Collections.Transformations.associateWith`

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
DoubleArray.associateWith(valueSelector: (Double) -> V): Map<Double, V> {\n    val result =
LinkedHashMap<Double, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
BooleanArray.associateWith(valueSelector: (Boolean) -> V): Map<Boolean, V> {\n    val result =
LinkedHashMap<Boolean, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
CharArray.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n    val result = LinkedHashMap<Char,
V>(mapCapacity(size.coerceAtMost(128)).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function
applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
@sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\npublic
inline fun <K, V, M : MutableMap<in K, in V>> Array<out K>.associateWithTo(destination: M, valueSelector: (K)
-> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector]
function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the
map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Byte, in V>>
ByteArray.associateWithTo(destination: M, valueSelector: (Byte) -> V): M {\n    for (element in this) {\n
destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
<V, M : MutableMap<in Short, in V>> ShortArray.associateWithTo(destination: M, valueSelector: (Short) -> V):
M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
@sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Int, in V>>
IntArray.associateWithTo(destination: M, valueSelector: (Int) -> V): M {\n    for (element in this) {\n
destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable
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map with key-value pairs for each element of the given array,\n \* where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n \* \n \* If any two elements are equal, the last one overwrites the former value in the map.\n \* \n \* @sample

```

samples.collections.Collections.Transformations.associateWithTo\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Long, in V>>\nLongArray.associateWithTo(destination: M, valueSelector: (Long) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample\n */\nsamples.collections.Collections.Transformations.associateWithTo\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Float, in V>>\nFloatArray.associateWithTo(destination: M, valueSelector: (Float) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample\n */\nsamples.collections.Collections.Transformations.associateWithTo\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Double, in V>>\nDoubleArray.associateWithTo(destination: M, valueSelector: (Double) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample\n */\nsamples.collections.Collections.Transformations.associateWithTo\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Boolean, in V>>\nBooleanArray.associateWithTo(destination: M, valueSelector: (Boolean) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample\n */\nsamples.collections.Collections.Transformations.associateWithTo\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Char, in V>>\nCharArray.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\n\npublic fun <T, C : MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\n\npublic fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\n\npublic fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\n\npublic fun <C : MutableCollection<in Int>> IntArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\n\npublic fun <C : MutableCollection<in Long>> LongArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\n\npublic fun <C :

```

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MutableCollection<in Float>> FloatArray.toCollection(destination: C): C {\n  for (item in this)
{\n  destination.add(item)\n  }\n  return destination\n}\n\n/**\n * Appends all elements to the given
[destination] collection.\n */\npublic fun <C : MutableCollection<in Double>>
DoubleArray.toCollection(destination: C): C {\n  for (item in this) {\n  destination.add(item)\n  }\n  return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C :
MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C {\n  for (item in this) {\n
destination.add(item)\n  }\n  return destination\n}\n\n/**\n * Appends all elements to the given [destination]
collection.\n */\npublic fun <C : MutableCollection<in Char>> CharArray.toCollection(destination: C): C {\n  for
(item in this) {\n  destination.add(item)\n  }\n  return destination\n}\n\n/**\n * Returns a new [HashSet] of all
elements.\n */\npublic fun <T> Array<out T>.toHashSet(): HashSet<T> {\n  return
toCollection(HashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun
ByteArray.toHashSet(): HashSet<Byte> {\n  return
toCollection(HashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun
ShortArray.toHashSet(): HashSet<Short> {\n  return
toCollection(HashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun
IntArray.toHashSet(): HashSet<Int> {\n  return
toCollection(HashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic
fun LongArray.toHashSet(): HashSet<Long> {\n  return
toCollection(HashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun
FloatArray.toHashSet(): HashSet<Float> {\n  return
toCollection(HashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun
DoubleArray.toHashSet(): HashSet<Double> {\n  return
toCollection(HashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun
BooleanArray.toHashSet(): HashSet<Boolean> {\n  return
toCollection(HashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all
elements.\n */\npublic fun CharArray.toHashSet(): HashSet<Char> {\n  return
toCollection(HashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n}\n\n/**\n * Returns a [List] containing all
elements.\n */\npublic fun <T> Array<out T>.toList(): List<T> {\n  return when (size) {\n  0 -> emptyList()\n
1 -> listOf(this[0])\n  else -> this.toMutableList()\n  }\n}\n\n/**\n * Returns a [List] containing all
elements.\n */\npublic fun ByteArray.toList(): List<Byte> {\n  return when (size) {\n  0 -> emptyList()\n
1 -> listOf(this[0])\n  else -> this.toMutableList()\n  }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun
ShortArray.toList(): List<Short> {\n  return
when (size) {\n  0 -> emptyList()\n  1 -> listOf(this[0])\n  else -> this.toMutableList()\n  }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun IntArray.toList(): List<Int> {\n  return when (size) {\n
0 -> emptyList()\n  1 -> listOf(this[0])\n  else -> this.toMutableList()\n  }\n}\n\n/**\n * Returns a [List]
containing all elements.\n */\npublic fun LongArray.toList(): List<Long> {\n  return when (size) {\n  0 ->
emptyList()\n  1 -> listOf(this[0])\n  else -> this.toMutableList()\n  }\n}\n\n/**\n * Returns a [List]
containing all elements.\n */\npublic fun FloatArray.toList(): List<Float> {\n  return when (size) {\n  0 ->
emptyList()\n  1 -> listOf(this[0])\n  else -> this.toMutableList()\n  }\n}\n\n/**\n * Returns a [List]
containing all elements.\n */\npublic fun DoubleArray.toList(): List<Double> {\n  return when (size) {\n  0 ->
emptyList()\n  1 -> listOf(this[0])\n  else -> this.toMutableList()\n  }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun
BooleanArray.toList(): List<Boolean> {\n  return when (size) {\n  0 -> emptyList()\n  1 -> listOf(this[0])\n
else -> this.toMutableList()\n  }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun
CharArray.toList(): List<Char> {\n  return when (size) {\n  0 -> emptyList()\n  1 -> listOf(this[0])\n
else -> this.toMutableList()\n  }\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun <T> Array<out T>.toMutableList(): MutableList<T> {\n  return
ArrayList(this.asCollection())\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */

```

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*^public fun ByteArray.toMutableList(): MutableList<Byte> {
    val list = ArrayList<Byte>(size)
    for (item in this) list.add(item)
    return list
}

* Returns a new [MutableList] filled with all elements of this array.

*^public fun ShortArray.toMutableList(): MutableList<Short> {
    val list = ArrayList<Short>(size)
    for (item in this) list.add(item)
    return list
}

* Returns a new [MutableList] filled with all elements of this array.

*^public fun IntArray.toMutableList(): MutableList<Int> {
    val list = ArrayList<Int>(size)
    for (item in this) list.add(item)
    return list
}

* Returns a new [MutableList] filled with all elements of this array.

*^public fun LongArray.toMutableList(): MutableList<Long> {
    val list = ArrayList<Long>(size)
    for (item in this) list.add(item)
    return list
}

* Returns a new [MutableList] filled with all elements of this array.

*^public fun FloatArray.toMutableList(): MutableList<Float> {
    val list = ArrayList<Float>(size)
    for (item in this) list.add(item)
    return list
}

* Returns a new [MutableList] filled with all elements of this array.

*^public fun DoubleArray.toMutableList(): MutableList<Double> {
    val list = ArrayList<Double>(size)
    for (item in this) list.add(item)
    return list
}

* Returns a new [MutableList] filled with all elements of this array.

*^public fun BooleanArray.toMutableList(): MutableList<Boolean> {
    val list = ArrayList<Boolean>(size)
    for (item in this) list.add(item)
    return list
}

* Returns a new [MutableList] filled with all elements of this array.

*^public fun CharArray.toMutableList(): MutableList<Char> {
    val list = ArrayList<Char>(size)
    for (item in this) list.add(item)
    return list
}

* Returns a [Set] of all elements.

* The returned set preserves the element iteration order of the original array.

*^public fun <T> Array<out T>.toSet(): Set<T> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))
    }
}

* Returns a [Set] of all elements.

* The returned set preserves the element iteration order of the original array.

*^public fun ByteArray.toSet(): Set<Byte> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Byte>(mapCapacity(size)))
    }
}

* Returns a [Set] of all elements.

* The returned set preserves the element iteration order of the original array.

*^public fun ShortArray.toSet(): Set<Short> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Short>(mapCapacity(size)))
    }
}

* Returns a [Set] of all elements.

* The returned set preserves the element iteration order of the original array.

*^public fun IntArray.toSet(): Set<Int> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Int>(mapCapacity(size)))
    }
}

* Returns a [Set] of all elements.

* The returned set preserves the element iteration order of the original array.

*^public fun LongArray.toSet(): Set<Long> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Long>(mapCapacity(size)))
    }
}

* Returns a [Set] of all elements.

* The returned set preserves the element iteration order of the original array.

*^public fun FloatArray.toSet(): Set<Float> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Float>(mapCapacity(size)))
    }
}

* Returns a [Set] of all elements.

* The returned set preserves the element iteration order of the original array.

*^public fun DoubleArray.toSet(): Set<Double> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Double>(mapCapacity(size)))
    }
}

* Returns a [Set] of all elements.

* The returned set preserves the element iteration order of the original array.

*^public fun BooleanArray.toSet(): Set<Boolean> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))
    }
}

* Returns a [Set] of all elements.

* The returned set preserves the element iteration order of the original array.

*^public fun CharArray.toSet(): Set<Char> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))
    }
}

* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

* @sample samples.collections.Collections.Transformations.flatMap

*^public inline fun <T, R> Array<out

```



```

inline fun <R> ByteArray.flatMapIndexed(transform: (index: Int, Byte) -> Iterable<R>): List<R> {\n  return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ShortArray.flatMapIndexed(transform: (index: Int, Short) -> Iterable<R>): List<R> {\n  return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.flatMapIndexed(transform: (index: Int, Int) -> Iterable<R>): List<R> {\n  return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns
a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its
index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.flatMapIndexed(transform: (index: Int, Long) -> Iterable<R>): List<R> {\n  return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> FloatArray.flatMapIndexed(transform: (index: Int, Float) -> Iterable<R>): List<R> {\n  return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> DoubleArray.flatMapIndexed(transform: (index: Int, Double) -> Iterable<R>): List<R> {\n  return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n
*\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> BooleanArray.flatMapIndexed(transform: (index: Int, Boolean) -> Iterable<R>): List<R> {\n
return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded
from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharArray.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>):
List<R> {\n  return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all
elements yielded from results of [transform] function being invoked on each element\n * and its index in the original
array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequence")\n@kotlin.internal.InlineOnly\npubli

```



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the original array, to the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapIndexedTo(destination: C, transform: (index:
Int, Double) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in
R>> BooleanArray.flatMapIndexedTo(destination: C, transform: (index: Int, Boolean) -> Iterable<R>): C {\n    var
index = 0\n    for (element in this) {\n        val list = transform(index++, element)\n        destination.addAll(list)\n
    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original array, to the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> CharArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Char) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded
from results of [transform] function being invoked on each element\n * and its index in the original array, to the
given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npub
lic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =
transform(index++, element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n *\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C,
transform: (T) -> Iterable<R>): C {\n    for (element in this) {\n        val list
= transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements
yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n *\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C,
transform: (Byte) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n
destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n *\npublic inline
fun <R, C : MutableCollection<in R>> ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C
{\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform]
function being invoked on each element of original array, to the given [destination].\n *\npublic inline fun <R, C :
MutableCollection<in R>> IntArray.flatMapTo(destination: C, transform: (Int) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n *\npublic inline fun <R, C : MutableCollection<in R>>
LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<R>): C {\n    for (element in this) {\n        val
list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n *\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapTo(destination:

```

```

C, transform: (Float) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
Append all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
public inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C, transform: (Double) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
Append all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
public inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform: (Boolean) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
Append all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
public inline fun <R, C : MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
Append all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("flatMapSequenceTo")
public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.
The returned map preserves the entry iteration order of the keys produced from the original array.
@sample
samples.collections.Collections.Transformations.groupBy
public inline fun <T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)
}
Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.
The returned map preserves the entry iteration order of the keys produced from the original array.
@sample
samples.collections.Collections.Transformations.groupBy
public inline fun <K> ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {
    return groupByTo(LinkedHashMap<K, MutableList<Byte>>(), keySelector)
}
Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.
The returned map preserves the entry iteration order of the keys produced from the original array.
@sample
samples.collections.Collections.Transformations.groupBy
public inline fun <K> ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {
    return groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)
}
Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.
The returned map preserves the entry iteration order of the keys produced from the original array.
@sample
samples.collections.Collections.Transformations.groupBy
public inline fun <K> IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {
    return groupByTo(LinkedHashMap<K, MutableList<Int>>(), keySelector)
}
Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.
The returned map preserves the entry iteration order of the keys produced from the original array.
@sample
samples.collections.Collections.Transformations.groupBy
public inline fun <K> LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {
    return

```

groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array

by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample

samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K>

FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {\n return groupByTo(LinkedHashMap<K, MutableList<Float>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample

samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K> DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {\n return groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample

samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K> BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>> {\n return groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample

samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K>

CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample

samples.collections.Collections.Transformations.groupByKeysAndValues\n \*/\npublic inline fun <T, K, V> Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample

samples.collections.Collections.Transformations.groupByKeysAndValues\n \*/\npublic inline fun <K, V>

ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample

samples.collections.Collections.Transformations.groupByKeysAndValues\n \*/\npublic inline fun <K, V>

ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated

with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample

```

samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K,
MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform]
function applied to each element of the original array\n * by the key returned by the given [keySelector] function
applied to the element\n * and returns a map where each group key is associated with a list of corresponding
values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n
*\n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun
<K, V> LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {\n
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups
values returned by the [valueTransform] function applied to each element of the original array\n * by the key
returned by the given [keySelector] function applied to the element\n * and returns a map where each group
key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of
the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
DoubleArray.groupBy(keySelector:
(Double) -> K, valueTransform: (Double) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K,
MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform]
function applied to each element of the original array\n * by the key returned by the given [keySelector] function
applied to the element\n * and returns a map where each group key is associated with a list of corresponding
values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n
*\n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun
<K, V> BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, List<V>>>
{\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n *
Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the
key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key
is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the
keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements
of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to
the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline
fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out
T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n val key =
keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n list.add(element)\n }\n
return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and puts to the [destination] map each group key associated with a list of

```

```

corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n * \n\npublic inline fun <K, M : MutableMap<in K,
MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K): M {\n  for (element in
this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<Byte>() }\n
list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups elements of the original array by the key returned
by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key
associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n * \n\npublic inline fun <K, M : MutableMap<in K,
MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K): M {\n  for (element in
this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<Short>() }\n
list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups elements of the original array by the key returned
by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key
associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n * \n\npublic inline fun <K, M : MutableMap<in
K, MutableList<Int>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K): M {\n  for (element in this)
{\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<Int>() }\n
list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups elements of the original array by the key returned
by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key
associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n * \n\npublic inline fun <K, M : MutableMap<in K,
MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {\n  for (element in
this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<Long>() }\n
list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n * \n\npublic inline
fun <K, M : MutableMap<in K, MutableList<Float>>> FloatArray.groupByTo(destination: M, keySelector: (Float)
-> K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<Float>() }\n    list.add(element)\n  }\n  return destination\n}\n\n/**\n *
Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n\npublic
inline fun <K, M : MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M,
keySelector: (Double) -> K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<Double>() }\n    list.add(element)\n  }\n  return destination\n}\n\n/**\n *
Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n\npublic inline fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination:
M, keySelector: (Boolean) -> K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list
= destination.getOrPut(key) { ArrayList<Boolean>() }\n    list.add(element)\n  }\n  return destination\n}\n\n/**\n *
Groups elements of the original array by the key returned by the given
[keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with
a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n * \n\npublic inline fun <K, M : MutableMap<in K,
MutableList<Char>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K): M {\n  for (element in
this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<Char>() }\n

```

```

list.add(element)\n } \n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function
applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to
the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n
 * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination:
M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n val key =
keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K,
valueTransform: (Short) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key)
{ ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups
values returned by the [valueTransform] function applied to each element of the original array\n * by the key
returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group
key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K,
valueTransform: (Int) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector:
(Long) -> K, valueTransform: (Long) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n
 * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K,
valueTransform: (Float) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the

```



```

samples.collections.Collections.Transformations.map\n *
\npublic inline fun <R> DoubleArray.map(transform:
(Double) -> R): List<R> {\n  return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing
the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n
*\npublic inline fun <R> BooleanArray.map(transform: (Boolean) -> R): List<R> {\n  return
mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given
[transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n *
\npublic inline fun <R> CharArray.map(transform: (Char)
-> R): List<R> {\n  return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the
results of applying the given [transform] function\n * to each element and its index in the original array.\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n *
\npublic inline fun <T, R> Array<out T>.mapIndexed(transform: (index:
Int, T) -> R): List<R> {\n  return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list
containing the results of applying the given [transform] function\n * to each element and its index in the original
array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the
result of the transform applied to the element.\n *
\npublic inline fun <R> ByteArray.mapIndexed(transform: (index:
Int, Byte) -> R): List<R> {\n  return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list
containing the results of applying the given [transform] function\n * to each element and its index in the original
array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the
result of the transform applied to the element.\n *
\npublic inline fun <R> ShortArray.mapIndexed(transform:
(index: Int, Short) -> R): List<R> {\n  return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns
a list containing the results of applying the given [transform] function\n * to
each element and its index in the original array.\n * @param [transform] function that takes the index of an element
and the element itself\n * and returns the result of the transform applied to the element.\n *
\npublic inline fun <R>
IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {\n  return mapIndexedTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element and its index in the original array.\n * @param [transform] function that takes the index of an element and
the element itself\n * and returns the result of the transform applied to the element.\n *
\npublic inline fun <R>
LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {\n  return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n *
\npublic inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {\n
return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying
the given [transform] function\n * to each element and its index in the original array.\n * @param [transform]
function that takes the index of an element and the element itself\n * and returns the result of the transform applied
to the element.\n *
\npublic inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R):
List<R> {\n  return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the
results of applying the given [transform] function\n * to each element and its index in the original array.\n *
@param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n *
\npublic inline fun <R>
BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {\n  return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n *
\npublic inline fun <R> CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n
return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-null
results of applying the given [transform] function\n * to each element and its index in the original array.\n *

```



that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>> BooleanArray.mapIndexedTo(destination: C,
transform: (index: Int, Boolean) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

```

Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>>
CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

```

Returns a list containing only the non-null results of applying the given [transform] function to each element in the original array.

@sample samples.collections.Collections.Transformations.mapNotNull

```

public inline fun <T, R : Any>
Array<out T>.mapNotNull(transform: (T) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(),
transform)
}

```

Applies the given [transform] function to each element in the original array and appends only the non-null results to the given [destination].

```

public inline fun <T, R : Any, C :
MutableCollection<in R>> Array<out T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {
    forEach {
        element -> transform(element)?.let { destination.add(it) }
    }
    return destination
}

```

Applies the given [transform] function to each element of the original array and appends the results to the given [destination].

```

public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapTo(destination: C, transform: (T) ->
R):
C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

```

Applies the given [transform] function to each element of the original array and appends the results to the given [destination].

```

public inline fun <R, C : MutableCollection<in R>>
ByteArray.mapTo(destination: C,
transform: (Byte) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

```

Applies the given [transform] function to each element of the original array and appends the results to the given [destination].

```

public inline fun <R, C : MutableCollection<in R>>
ShortArray.mapTo(destination: C, transform: (Short) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

```

Applies the given [transform] function to each element of the original array and appends the results to the given [destination].

```

public inline fun <R, C :
MutableCollection<in R>> IntArray.mapTo(destination: C, transform: (Int) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

```

Applies the given [transform] function to each element of the original array and appends the results to the given [destination].

```

public inline fun <R, C :
MutableCollection<in R>> LongArray.mapTo(destination: C, transform: (Long) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

```

Applies the given [transform] function to each element of the original array and appends the results to the given [destination].

```

public inline fun <R, C : MutableCollection<in R>> FloatArray.mapTo(destination: C, transform: (Float) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

```

Applies the given [transform] function to each element of the original array and appends the results to the given [destination].

```

public inline fun <R, C : MutableCollection<in R>> DoubleArray.mapTo(destination: C,
transform: (Double) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

```

Applies the given [transform] function to each element of the original array and appends the results to the given [destination].

```

public inline fun <R, C : MutableCollection<in R>>
BooleanArray.mapTo(destination: C, transform: (Boolean) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

```

Applies the given [transform] function to each element of the original array and appends the results to the given [destination].

```

public inline fun <R, C :
MutableCollection<in R>> CharArray.mapTo(destination: C, transform: (Char) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

```

Returns a lazy [Iterable] that wraps each



same order as they were in the source array.\n \* \n \* @sample

```

samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic fun DoubleArray.distinct():
List<Double> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements
from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source
array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic fun
BooleanArray.distinct(): List<Boolean> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list
containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same
order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic fun CharArray.distinct():
List<Char> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing
only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n *
Among elements of the given array with equal keys, only the first one will be present in the resulting list.\n * The
elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic inline fun <T, K> Array<out
T>.distinctBy(selector: (T) -> K): List<T> {\n    val set = HashSet<K>()\n    val list = ArrayList<T>()\n    for (e in
this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n *
Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector]
function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n *
@sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n
*^\\npublic inline fun <K> ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {\n    val set = HashSet<K>()\n
val list = ArrayList<Byte>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n
list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n *
having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the
same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic inline fun <K>
ShortArray.distinctBy(selector: (Short) -> K): List<Short> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Short>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n
return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct
keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as
they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic inline fun <K>
IntArray.distinctBy(selector: (Int) -> K): List<Int> {\n    val set = HashSet<K>()\n    val list = ArrayList<Int>()\n
for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n *
Returns a list containing only elements from the given array\n * having distinct keys returned by the given
[selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source
array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic inline
fun <K> LongArray.distinctBy(selector: (Long) -> K): List<Long> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Long>()\n    for (e
in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n *
Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector]
function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n *
@sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic inline fun <K>
FloatArray.distinctBy(selector: (Float) -> K): List<Float> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Float>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n
return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n

```

```

*/\npublic inline fun <K> DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {\n    val set =
HashSet<K>()\n    val list = ArrayList<Double>()\n    for (e in this) {\n        val key = selector(e)\n        if
(set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the
given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting
list are in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Boolean>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n
}\n    return list\n}\n\n/**\n * Returns a list containing
only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The
elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
CharArray.distinctBy(selector: (Char) -> K): List<Char> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Char>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n
}\n    return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set
containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun <T>
Array<out T>.intersect(other: Iterable<T>): Set<T> {\n    val set = this.toMutableSet()\n
    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both
this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original
array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use
[union].\n */\npublic infix fun ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {\n    val set =
this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are
contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration
order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these
collections use [union].\n */\npublic infix fun ShortArray.intersect(other: Iterable<Short>): Set<Short> {\n    val set
= this.toMutableSet()\n    set.retainAll(other)\n
    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set
containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun
IntArray.intersect(other: Iterable<Int>): Set<Int> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n
    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set
containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun
LongArray.intersect(other: Iterable<Long>): Set<Long> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n
    return set\n}\n\n/**\n * Returns a set containing
all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the
element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least
in one of these collections use [union].\n */\npublic infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float>
{\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all
elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the
element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least
in one of these collections use [union].\n */\npublic infix fun DoubleArray.intersect(other: Iterable<Double>):
Set<Double> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set
containing all elements that are contained
by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the
original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections
use [union].\n */\npublic infix fun BooleanArray.intersect(other: Iterable<Boolean>): Set<Boolean> {\n    val set =

```

```

this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are
contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration
order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these
collections use [union].\n */\npublic infix fun CharArray.intersect(other: Iterable<Char>): Set<Char> {\n val set =
this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are
contained by this array and not contained by
the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n
*/\npublic infix fun <T> Array<out T>.subtract(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n
set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this
array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of
the original array.\n */\npublic infix fun ByteArray.subtract(other: Iterable<Byte>): Set<Byte> {\n val set =
this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that
are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the
element iteration order of the original array.\n */\npublic infix fun ShortArray.subtract(other: Iterable<Short>):
Set<Short> {\n val set = this.toMutableSet()\n set.removeAll(other)\n
return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by
the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n
*/\npublic infix fun IntArray.subtract(other: Iterable<Int>): Set<Int> {\n val set = this.toMutableSet()\n
set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this
array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of
the original array.\n */\npublic infix fun LongArray.subtract(other: Iterable<Long>): Set<Long> {\n val set =
this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that
are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the
element iteration order of the original array.\n */\npublic infix
fun FloatArray.subtract(other: Iterable<Float>): Set<Float> {\n val set = this.toMutableSet()\n
set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this
array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of
the original array.\n */\npublic infix fun DoubleArray.subtract(other: Iterable<Double>): Set<Double> {\n val set
= this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that
are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the
element iteration order of the original array.\n */\npublic infix fun BooleanArray.subtract(other: Iterable<Boolean>):
Set<Boolean> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set
containing all elements that are contained by this array and not contained
by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n
*/\npublic infix fun CharArray.subtract(other: Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n
set.removeAll(other)\n return set\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from
the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun
<T> Array<out T>.toMutableSet(): MutableSet<T> {\n return
toCollection(LinkedHashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original
array.\n */\npublic fun ByteArray.toMutableSet(): MutableSet<Byte> {\n return
toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original
array.\n */\npublic fun ShortArray.toMutableSet(): MutableSet<Short> {\n return
toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original
array.\n */\npublic fun IntArray.toMutableSet(): MutableSet<Int> {\n return

```

```

toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original
array.\n */\npublic fun LongArray.toMutableSet(): MutableSet<Long> {\n    return
toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original
array.\n */\npublic fun FloatArray.toMutableSet(): MutableSet<Float> {\n    return
toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original
array.\n */\npublic fun DoubleArray.toMutableSet(): MutableSet<Double> {\n    return
toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n\n/**\n * Returns a new [MutableSet] containing
all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the
original array.\n */\npublic fun BooleanArray.toMutableSet(): MutableSet<Boolean> {\n    return
toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n\n/**\n * Returns a new [MutableSet] containing
all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the
original array.\n */\npublic fun CharArray.toMutableSet():
MutableSet<Char> {\n    return
toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n\n/**\n * Returns a set containing
all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the
original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of
the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use
[intersect].\n */\npublic infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {\n    val set =
this.toMutableSet()\n    set.addAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all distinct elements
from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those
elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n *
\n * To get a set containing all elements
that are contained in both collections use [intersect].\n */\npublic infix fun ByteArray.union(other: Iterable<Byte>):
Set<Byte> {\n    val set = this.toMutableSet()\n    set.addAll(other)\n    return set\n}\n\n/**\n * Returns a set
containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order
of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the
order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use
[intersect].\n */\npublic infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {\n    val set =
this.toMutableSet()\n    set.addAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all distinct elements
from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those
elements of the [other] collection that are unique are
iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are
contained in both collections use [intersect].\n */\npublic infix fun IntArray.union(other: Iterable<Int>): Set<Int> {\n
    val set = this.toMutableSet()\n    set.addAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all distinct
elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n
\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other]
collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n
\n */\npublic infix fun LongArray.union(other: Iterable<Long>): Set<Long> {\n    val set = this.toMutableSet()\n
    set.addAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n
\n * The returned set preserves the element iteration
order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in
the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections
use [intersect].\n */\npublic infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {\n    val set =
this.toMutableSet()\n    set.addAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all distinct elements
from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those
elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n
\n * To get a set containing all elements that are contained in both collections use [intersect].\n

```



```

samples.collections.Collections.Aggregates.any\n *^\\npublic fun LongArray.any(): Boolean {\n  return
  isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *^\\npublic fun FloatArray.any(): Boolean {\n  return
  isEmpty()\n}\n\n/**\n * Returns `true` if
  array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n *^\\npublic fun
  DoubleArray.any(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n
  * \n * @sample samples.collections.Collections.Aggregates.any\n *^\\npublic fun BooleanArray.any(): Boolean {\n
  return isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *^\\npublic fun CharArray.any(): Boolean {\n  return
  isEmpty()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n *^\\npublic inline fun <T> Array<out
  T>.any(predicate: (T) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n  return
  false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n
  *^\\npublic inline fun ByteArray.any(predicate: (Byte) -> Boolean): Boolean {\n  for (element in this) if
  (predicate(element)) return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the
  given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^\\npublic
  inline fun ShortArray.any(predicate: (Short) -> Boolean): Boolean {\n  for (element in this) if (predicate(element))
  return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n *
  * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^\\npublic inline fun
  IntArray.any(predicate: (Int) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n
  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n
  *^\\npublic inline fun LongArray.any(predicate: (Long) -> Boolean): Boolean {\n  for (element in this) if
  (predicate(element)) return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the
  given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^\\npublic
  inline fun FloatArray.any(predicate: (Float) -> Boolean): Boolean {\n  for (element in this) if (predicate(element))
  return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n *
  * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^\\npublic inline fun
  DoubleArray.any(predicate: (Double) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
  true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
  * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^\\npublic inline fun
  BooleanArray.any(predicate: (Boolean) -> Boolean): Boolean {\n  for (element in this) if (predicate(element))
  return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n *
  * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^\\npublic inline fun
  CharArray.any(predicate: (Char) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
  true\n  return false\n}\n\n/**\n * Returns the number of elements in this array.\n
  *^\\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.count(): Int {\n  return size\n}\n\n/**\n *
  Returns the number of elements in this array.\n *^\\n@kotlin.internal.InlineOnly\npublic inline fun
  ByteArray.count(): Int {\n  return size\n}\n\n/**\n * Returns the number of elements in this array.\n
  *^\\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.count(): Int {\n  return size\n}\n\n/**\n * Returns the
  number of elements in this array.\n
  *^\\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.count(): Int {\n  return size\n}\n\n/**\n * Returns the
  number of elements in this array.\n *^\\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.count(): Int {\n
  return size\n}\n\n/**\n * Returns the number of elements in this array.\n *^\\n@kotlin.internal.InlineOnly\npublic
  inline fun FloatArray.count(): Int {\n  return size\n}\n\n/**\n * Returns the number of elements in this array.\n
  *^\\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.count(): Int {\n  return size\n}\n\n/**\n * Returns
  the number of elements in this array.\n *^\\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.count(): Int

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{\n  return size\n}\n\n/**\n * Returns the number of elements in this array.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.count(): Int {\n  return size\n}\n\n/**\n * Returns the
number of elements matching the given [predicate].\n */\npublic inline fun <T> Array<out T>.count(predicate:
(T) -> Boolean): Int {\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun
ByteArray.count(predicate: (Byte) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n */\npublic inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {\n  var count = 0\n
for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements
matching the given [predicate].\n */\npublic inline fun IntArray.count(predicate: (Int) -> Boolean): Int {\n  var
count = 0\n  for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the
number of elements matching the given [predicate].\n */\npublic inline fun LongArray.count(predicate:
(Long) -> Boolean): Int {\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun
FloatArray.count(predicate: (Float) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n */\npublic inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int {\n  var count = 0\n
for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements
matching the given [predicate].\n */\npublic inline fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int
{\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns
the number of elements matching the given [predicate].\n */\npublic inline fun CharArray.count(predicate:
(Char) -> Boolean): Int {\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return
count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n *
to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n
* @param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n */\npublic inline fun <T, R> Array<out T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n
var accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R>
ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {\n  var accumulator = initial\n  for (element in this)
accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R>
ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R {\n  var accumulator = initial\n  for (element in this)
accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current
accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n
* @param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n */\npublic inline fun <R> IntArray.fold(initial: R, operation: (acc: R, Int) -> R): R {\n  var
accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the
next accumulator value.\n */\npublic inline fun <R> LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R
{\n  var accumulator = initial\n  for (element in this) accumulator = operation(accumulator,

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element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified
[initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and
an element, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.fold(initial: R,
operation: (acc: R, Float) -> R): R {\n    var accumulator = initial\n    for (element in this) accumulator =
operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns
the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline
fun <R> DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {\n    var accumulator = initial\n    for
(element in this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and
each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\n
public inline fun <R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {\n    var accumulator
= initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n
/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current
accumulator value and each element.\n * \n * Returns the specified [initial] value if
the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.fold(initial: R, operation: (acc: R,
Char) -> R): R {\n    var accumulator = initial\n    for (element in this) accumulator = operation(accumulator,
element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n
 * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n */\npublic inline fun <T, R> Array<out T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R
{\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator
= operation(index++, accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its
index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param
[operation] function that takes the index of an element, current accumulator value\n * and the element itself, and
calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldIndexed(initial: R, operation:
(index: Int, acc: R, Byte) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this)
accumulator = operation(index++, accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
element with its index in the original array.\n * \n * Returns the specified
[initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R>
ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {\n    var index = 0\n    var
accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n
public inline fun <R> IntArray.foldIndexed(initial: R, operation: (index: Int,
acc: R, Int) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator =
operation(index++, accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its

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index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> LongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> FloatArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <T, R> Array<out T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to



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* to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified
[initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the
element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun
<R> ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, acc: R) -> R): R {\n    var index =
lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next
accumulator value.\n */\npublic inline fun <R>
IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {\n    var index = lastIndex\n    var
accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n
--index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n
*\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator
value.\n */\npublic inline fun <R> LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) ->
R): R {\n    var index = lastIndex\n    var accumulator = initial\n
    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic
inline fun <R> FloatArray.foldRightIndexed(initial: R, operation: (index: Int, Float, acc: R) -> R): R {\n    var
index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index,
get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from right to left\n * to
each element with its index in the original array and current accumulator value.\n * \n * Returns the specified
[initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the
element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun
<R> DoubleArray.foldRightIndexed(initial: R, operation: (index: Int, Double, acc: R) -> R): R {\n    var index =
lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself\n * and
current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>
BooleanArray.foldRightIndexed(initial: R, operation: (index: Int, Boolean, acc: R) -> R): R {\n    var index =
lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the
next accumulator value.\n */\npublic inline fun <R> CharArray.foldRightIndexed(initial: R, operation: (index: Int,
Char, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n
    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n
return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun <T>
Array<out T>.forEach(action: (T) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n * Performs

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the given [action] on each element.\n */\npublic inline fun ByteArray.forEach(action: (Byte) -> Unit): Unit {\n for
(element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun
ShortArray.forEach(action: (Short) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs
the given [action] on each element.\n */\npublic inline fun IntArray.forEach(action: (Int) -> Unit): Unit {\n for
(element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun
LongArray.forEach(action: (Long) -> Unit): Unit {\n for (element in
this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun
FloatArray.forEach(action: (Float) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs
the given [action] on each element.\n */\npublic inline fun DoubleArray.forEach(action: (Double) -> Unit): Unit {\n
for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline
fun BooleanArray.forEach(action: (Boolean) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n */\npublic inline fun CharArray.forEach(action: (Char) -> Unit):
Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing
sequential index with the element.\n * @param [action] function that takes the index of an element and the element
itself\n * and performs the action on the element.\n */\npublic inline fun <T>
Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n */\npublic inline fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit
{\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each
element, providing sequential index with the element.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n */\npublic inline fun
ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential
index with the element.\n * @param [action] function that takes the index of an element and the element itself\n *
and performs the action on the element.\n */\npublic inline fun IntArray.forEachIndexed(action: (index: Int, Int) ->
Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action]
on each element, providing sequential index with the element.\n * @param [action] function that takes the index of
an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun
LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n */\npublic inline fun FloatArray.forEachIndexed(action:
(index: Int, Float) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n *
Performs the given [action] on each element, providing sequential index with the element.\n * @param [action]
function that takes the index of an element and the element itself\n * and performs the action on the element.\n
*/\npublic inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {\n var index = 0\n
for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing
sequential index with the element.\n * @param [action] function that takes the index of an element and the element
itself\n * and performs the action on the element.\n */\npublic inline fun BooleanArray.forEachIndexed(action:
(index: Int, Boolean) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n *
Performs the given [action] on each element, providing sequential index with the element.\n * @param [action]
function that takes the index of an element and the element itself\n * and performs the action on
the element.\n */\npublic inline fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n var
index = 0\n for (item in this) action(index++, item)\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4")\n@SinceKotlin("1.1")\npublic
fun Array<out Double>.max(): Double? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4")\n@SinceKotlin("1.1")\npublic

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fun Array<out Float>.max(): Float? {\n  return maxOrNull()\n}\n\n@Deprecated(\\"Use maxOrNull instead.\",
ReplaceWith(\\"maxOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic fun <T :
Comparable<T>> Array<out T>.max(): T? {\n  return maxOrNull()\n}\n\n@Deprecated(\\"Use maxOrNull
instead.\", ReplaceWith(\\"maxOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince
= \\"1.4\")\npublic fun ByteArray.max(): Byte? {\n  return maxOrNull()\n}\n\n@Deprecated(\\"Use maxOrNull
instead.\", ReplaceWith(\\"maxOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic fun
ShortArray.max(): Short? {\n  return maxOrNull()\n}\n\n@Deprecated(\\"Use maxOrNull instead.\",
ReplaceWith(\\"maxOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic fun IntArray.max():
Int? {\n  return maxOrNull()\n}\n\n@Deprecated(\\"Use maxOrNull instead.\",
ReplaceWith(\\"maxOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic fun LongArray.max():
Long? {\n  return maxOrNull()\n}\n\n@Deprecated(\\"Use maxOrNull instead.\",
ReplaceWith(\\"maxOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic fun FloatArray.max():
Float? {\n  return maxOrNull()\n}\n\n@Deprecated(\\"Use maxOrNull instead.\",
ReplaceWith(\\"maxOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic fun
DoubleArray.max():
Double? {\n  return maxOrNull()\n}\n\n@Deprecated(\\"Use maxOrNull instead.\",
ReplaceWith(\\"maxOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic fun CharArray.max():
Char? {\n  return maxOrNull()\n}\n\n@Deprecated(\\"Use maxByOrNull instead.\",
ReplaceWith(\\"maxByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic inline fun
<T, R : Comparable<R>> Array<out T>.maxBy(selector: (T) -> R): T? {\n  return
maxByOrNull(selector)\n}\n\n@Deprecated(\\"Use maxByOrNull instead.\",
ReplaceWith(\\"maxByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic inline fun
<R : Comparable<R>> ByteArray.maxBy(selector: (Byte) -> R): Byte? {\n  return
maxByOrNull(selector)\n}\n\n@Deprecated(\\"Use maxByOrNull instead.\",
ReplaceWith(\\"maxByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic inline fun
<R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R): Short? {\n  return
maxByOrNull(selector)\n}\n\n@Deprecated(\\"Use
maxByOrNull instead.\", ReplaceWith(\\"maxByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince =
\\"1.4\")\npublic inline fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int? {\n  return
maxByOrNull(selector)\n}\n\n@Deprecated(\\"Use maxByOrNull instead.\",
ReplaceWith(\\"maxByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic inline fun
<R : Comparable<R>> LongArray.maxBy(selector: (Long) -> R): Long? {\n  return
maxByOrNull(selector)\n}\n\n@Deprecated(\\"Use maxByOrNull instead.\",
ReplaceWith(\\"maxByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic inline fun
<R : Comparable<R>> FloatArray.maxBy(selector: (Float) -> R): Float? {\n  return
maxByOrNull(selector)\n}\n\n@Deprecated(\\"Use maxByOrNull instead.\",
ReplaceWith(\\"maxByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic inline fun
<R : Comparable<R>> DoubleArray.maxBy(selector: (Double) -> R): Double?
{\n  return maxByOrNull(selector)\n}\n\n@Deprecated(\\"Use maxByOrNull instead.\",
ReplaceWith(\\"maxByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic inline fun
<R : Comparable<R>> BooleanArray.maxBy(selector: (Boolean) -> R): Boolean? {\n  return
maxByOrNull(selector)\n}\n\n@Deprecated(\\"Use maxByOrNull instead.\",
ReplaceWith(\\"maxByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\")\npublic inline fun
<R : Comparable<R>> CharArray.maxBy(selector: (Char) -> R): Char? {\n  return
maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*\n *\n * @SinceKotlin(\\"1.4\")\n *\n * @public inline fun <T, R : Comparable<R>> Array<out T>.maxByOrNull(selector: (T) ->
R): T? {\n  if (isEmpty()) return null\n  var maxElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex

```

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== 0)
return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v
= selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return
maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are
no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> ByteArray.maxByOrNull(selector: (Byte) ->
R): Byte? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding
the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> ShortArray.maxByOrNull(selector: (Short) -> R): Short? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> IntArray.maxByOrNull(selector: (Int) -> R): Int? {\n if (isEmpty()) return null\n
var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> LongArray.maxByOrNull(selector: (Long) -> R): Long? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n maxElem = e\n maxValue = v\n }\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given
function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> FloatArray.maxByOrNull(selector: (Float) -> R): Float? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n maxElem = e\n maxValue = v\n }\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> DoubleArray.maxByOrNull(selector:
(Double) -> R): Double? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex =
this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in
1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n
maxValue = v\n }\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value
of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> BooleanArray.maxByOrNull(selector: (Boolean) -> R): Boolean? {\n if (isEmpty()) return
null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var
maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v

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= selector(e)\n    if (maxValue < v) {\n        maxElem = e\n        maxValue = v\n    }\n } return
maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are
no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> CharArray.maxByOrNull(selector: (Char) ->
R): Char? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if
(lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n
}\n    return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.maxOf(selector: (Byte) -> Double): Double {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n
        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is
empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Double):
Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in
1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun FloatArray.maxOf(selector: (Float) -> Double): Double {\n  if (isEmpty()) throw
NoSuchElementException()\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return maxValue}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var maxValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue
= maxOf(maxValue, v)\n  }\n  return maxValue}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is
empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var maxValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return
maxValue}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`,
the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var maxValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return
maxValue}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Array<out T>.maxOf(selector: (T) -> Float): Float {\n  if (isEmpty()) throw
NoSuchElementException()\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return maxValue}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) -> Float):
Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var maxValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue,
v)\n  }\n  return maxValue}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`,
the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) ->
Float): Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var maxValue = selector(this[0])\n  for (i
in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return

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maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxOf(selector: (T) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue =

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selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     if (maxValue < v) {\n
maxValue = v\n     }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.maxOf(selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     if (maxValue < v) {\n
maxValue = v\n     }\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.maxOf(selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     if (maxValue < v) {\n
maxValue = v\n     }\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.maxOf(selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     if (maxValue < v) {\n
maxValue = v\n     }\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.maxOf(selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     if (maxValue < v) {\n
maxValue = v\n     }\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> FloatArray.maxOf(selector: (Float) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v =
selector(this[i])\n     if (maxValue < v) {\n         maxValue = v\n     }\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.maxOf(selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     if (maxValue < v) {\n
maxValue
= v\n     }\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by
[selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array
is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.maxOf(selector: (Boolean) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> CharArray.maxOf(selector: (Char) -> R): R {\n  if (isEmpty()) throw
NoSuchElementException()\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array
or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOfOrNull(selector:
(T) -> Double): Double? {\n  if (isEmpty()) return null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOfOrNull(selector: (Byte) ->
Double): Double? {\n  if (isEmpty()) return null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n
    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return maxValue\n}\n\n/**\n * Returns
the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`
if there are no elements.\n
* \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOfOrNull(selector: (Short) -
> Double): Double? {\n  if (isEmpty()) return null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex)
{\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return maxValue\n}\n\n/**\n * Returns
the largest value among all values produced by [selector] function\n * applied to each element in the array
or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOfOrNull(selector:
(Int) -> Double): Double? {\n  if (isEmpty()) return null\n  var maxValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOfOrNull(selector: (Long) -
> Double): Double? {\n  if (isEmpty()) return null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex)
{\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return maxValue\n}\n\n/**\n * Returns
the largest value among all

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values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \*  
 \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOrNull(selector: (Float) -
> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex)
{\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the array
or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.maxOrNull(selector: (Double) -> Double): Double? {\n    if (isEmpty()) return null\n
var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue =
maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOrNull(selector:
(Boolean) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in
1..lastIndex) {\n        val v = selector(this[i])\n
        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *
\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOrNull(selector: (Char) ->
Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n
val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns
the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`
if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOrNull(selector:
(T) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex)
{\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the array
or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOrNull(selector: (Byte) ->
Float): Float? {\n    if (isEmpty())
return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n
maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *
\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOrNull(selector: (Short) -
> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n
val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns

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the largest value among all values produced by [selector] function \* applied to each element in the array or `null` if there are no elements. \* \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

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*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@kotlin.internal.InlineOnlynpublic inline fun IntArray.maxOrNull(selector: (Int) ->
Float): Float? {n if (isEmpty()) return nulln var maxValue = selector(this[0])n for (i in 1..lastIndex) {n
val v = selector(this[i])n maxValue = maxOf(maxValue, v)n }n return maxValue\n}n/n/**n * Returns
the largest value among all values produced by [selector] functionn * applied to each element in the array or `null`
if there are no elements.n * n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN` .n
*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@kotlin.internal.InlineOnlynpublic
inline fun LongArray.maxOrNull(selector: (Long) -> Float): Float? {n if (isEmpty()) return nulln var
maxValue = selector(this[0])n for (i in 1..lastIndex) {n val v = selector(this[i])n maxValue =
maxOf(maxValue, v)n }n return maxValue\n}n/n/**n * Returns the largest value among all values produced
by [selector] functionn * applied to each element in the array or `null` if there are no elements.n * n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN` .n
*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@kotlin.internal.InlineOnlynpublic inline fun FloatArray.maxOrNull(selector: (Float) -
> Float): Float? {n if (isEmpty()) return nulln var maxValue = selector(this[0])n for (i in 1..lastIndex) {n
val v = selector(this[i])n maxValue = maxOf(maxValue, v)n }n return maxValue\n}n/n/**n
* Returns the largest value among all values produced by [selector] functionn * applied to each element in the
array or `null` if there are no elements.n * n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN` .n
*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@kotlin.internal.InlineOnlynpublic inline fun DoubleArray.maxOrNull(selector:
(Double) -> Float): Float? {n if (isEmpty()) return nulln var maxValue = selector(this[0])n for (i in
1..lastIndex) {n val v = selector(this[i])n maxValue = maxOf(maxValue, v)n }n return
maxValue\n}n/n/**n * Returns the largest value among all values produced by [selector] functionn * applied to
each element in the array or `null` if there are no elements.n * n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN` .n
*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@kotlin.internal.InlineOnlynpublic
inline fun BooleanArray.maxOrNull(selector: (Boolean) -> Float): Float? {n if (isEmpty()) return nulln var
maxValue = selector(this[0])n for (i in 1..lastIndex) {n val v = selector(this[i])n maxValue =
maxOf(maxValue, v)n }n return maxValue\n}n/n/**n * Returns the largest value among all values produced
by [selector] functionn * applied to each element in the array or `null` if there are no elements.n * n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN` .n
*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@kotlin.internal.InlineOnlynpublic inline fun CharArray.maxOrNull(selector: (Char) ->
Float): Float? {n if (isEmpty()) return nulln var maxValue = selector(this[0])n for
(i in 1..lastIndex) {n val v = selector(this[i])n maxValue = maxOf(maxValue, v)n }n return
maxValue\n}n/n/**n * Returns the largest value among all values produced by [selector] functionn * applied to
each element in the array or `null` if there are no elements.n
*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@kotlin.internal.InlineOnlynpublic inline fun <T, R : Comparable<R>> Array<out
T>.maxOrNull(selector: (T) -> R): R? {n if (isEmpty()) return nulln var maxValue = selector(this[0])n for
(i in 1..lastIndex) {n val v = selector(this[i])n if (maxValue < v) {n maxValue = v\n }n }n }n

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return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> ByteArray.maxOrNull(selector: (Byte) -> R): R? {\n    if (isEmpty()) return\n    null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n        (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value\n * among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no\n * elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.maxOrNull(selector: (Short) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n
            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.maxOrNull(selector: (Int) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n
            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> LongArray.maxOrNull(selector: (Long) -> R): R? {\n    if (isEmpty()) return\n    null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n        (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value\n * among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no\n * elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.maxOrNull(selector: (Float) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n
            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the\n * array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.maxOrNull(selector: (Double) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n
            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.maxOrNull(selector: (Boolean) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n
            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.maxOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ByteArray.maxOfWith(comparator: Comparator<in R>, selector: (Byte) -> R): R {\n if
(isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n
return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.maxOfWith(comparator:
Comparator<in R>, selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.maxOfWith(comparator:
Comparator<in R>, selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.maxOfWith(comparator:
Comparator<in R>, selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> FloatArray.maxOfWith(comparator: Comparator<in R>, selector: (Float) -> R): R {\n if
(isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n
return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n

```

return maxValue\n}\n\n/\*\*\n \* Returns the largest value according to the provided [comparator]\n \* among all values produced by [selector] function applied to each element in the array.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.maxOfWith(comparator: Comparator<in R>, selector: (Double) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.maxOfWith(comparator: Comparator<in R>, selector: (Boolean) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.maxOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n if (isEmpty()) return
null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n if
(isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if
there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if
(isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return
maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is
`NaN` returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic fun Array<out Double>.maxOrNull(): Double? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max =
maxOf(max, e)\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n *
\n * If any of elements is `NaN` returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic fun Array<out
Float>.maxOrNull(): Float? {\n if (isEmpty()) return null\n var max = this[0]\n

```

```

    for (i in 1..lastIndex) {
        val e = this[i]
        max = maxOf(max, e)
    }
    return max
}

Returns the largest element or `null` if there are no elements.
*/

@SinceKotlin("1.4")
public fun <T> Comparable<T>.maxOrNull(): T? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

Returns the largest element or `null` if there are no elements.
*/

@SinceKotlin("1.4")
public fun ByteArray.maxOrNull(): Byte? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

Returns the largest element or `null` if there are no elements.
*/

@SinceKotlin("1.4")
public fun ShortArray.maxOrNull(): Short? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

Returns the largest element or `null` if there are no elements.
*/

@SinceKotlin("1.4")
public fun IntArray.maxOrNull(): Int? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

Returns the largest element or `null` if there are no elements.
*/

@SinceKotlin("1.4")
public fun LongArray.maxOrNull(): Long? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

Returns the largest element or `null` if there are no elements.
*/

@SinceKotlin("1.4")
public fun FloatArray.maxOrNull(): Float? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        max = maxOf(max, e)
    }
    return max
}

Returns the largest element or `null` if there are no elements.
*/

@SinceKotlin("1.4")
public fun DoubleArray.maxOrNull(): Double? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        max = maxOf(max, e)
    }
    return max
}

Returns the largest element or `null` if there are no elements.
*/

@SinceKotlin("1.4")
public fun CharArray.maxOrNull(): Char? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T? {
    return maxWithOrNull(comparator)
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {
    return maxWithOrNull(comparator)
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun ShortArray.maxWith(comparator: Comparator<in Short>): Short? {
    return maxWithOrNull(comparator)
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun IntArray.maxWith(comparator: Comparator<in Int>): Int? {
    return maxWithOrNull(comparator)
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun LongArray.maxWith(comparator: Comparator<in Long>): Long? {
    return maxWithOrNull(comparator)
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {
    return maxWithOrNull(comparator)
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double? {
    return maxWithOrNull(comparator)
}

```

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ReplaceWith("\maxWithOrNull(comparator)\n"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
BooleanArray.maxWith(comparator: Comparator<in Boolean>): Boolean? {\n  return
maxWithOrNull(comparator)\n}\n\n@Deprecated("\Use maxWithOrNull instead.\n",
ReplaceWith("\maxWithOrNull(comparator)\n"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
CharArray.maxWith(comparator: Comparator<in Char>): Char? {\n  return
maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no
elements.\n */\n@SinceKotlin("1.4")\npublic fun <T> Array<out T>.maxWithOrNull(comparator: Comparator<in
T>): T? {\n  if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if
(comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\npublic fun ByteArray.maxWithOrNull(comparator: Comparator<in Byte>): Byte? {\n
if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if
(comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null`
if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun ShortArray.maxWithOrNull(comparator:
Comparator<in Short>): Short? {\n  if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n
val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\npublic fun IntArray.maxWithOrNull(comparator: Comparator<in Int>): Int? {\n  if
(isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if
(comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\npublic fun LongArray.maxWithOrNull(comparator: Comparator<in Long>): Long?
{\n  if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if
(comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\npublic fun FloatArray.maxWithOrNull(comparator: Comparator<in Float>): Float? {\n
if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if
(comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\npublic fun DoubleArray.maxWithOrNull(comparator: Comparator<in Double>):
Double? {\n  if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n
if
(comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\npublic fun BooleanArray.maxWithOrNull(comparator: Comparator<in Boolean>):
Boolean? {\n  if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n
if
(comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\npublic fun CharArray.maxWithOrNull(comparator: Comparator<in Char>): Char? {\n
if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if
(comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n@Deprecated("\Use minOrNull instead.\n",
ReplaceWith("\minOrNull()\n"))\n@DeprecatedSinceKotlin(warningSince
= "1.4")\n@SinceKotlin("1.1")\npublic fun Array<out Double>.min(): Double? {\n  return
minOrNull()\n}\n\n@Deprecated("\Use minOrNull instead.\n",
ReplaceWith("\minOrNull()\n"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\n@SinceKotlin("1.1")\npublic
fun Array<out Float>.min(): Float? {\n  return minOrNull()\n}\n\n@Deprecated("\Use minOrNull instead.\n",

```

```

ReplaceWith("minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun <T :
Comparable<T>> Array<out T>.min(): T? {\n    return minOrNull()\n}\n\n@Deprecated("Use minOrNull
instead.\", ReplaceWith("minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
ByteArray.min(): Byte? {\n    return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.\",
ReplaceWith("minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun ShortArray.min():
Short? {\n    return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.\",
ReplaceWith("minOrNull()")\n@DeprecatedSinceKotlin(warningSince
= "1.4")\npublic fun IntArray.min(): Int? {\n    return minOrNull()\n}\n\n@Deprecated("Use minOrNull
instead.\", ReplaceWith("minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
LongArray.min(): Long? {\n    return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.\",
ReplaceWith("minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun FloatArray.min():
Float? {\n    return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.\",
ReplaceWith("minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun DoubleArray.min():
Double? {\n    return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.\",
ReplaceWith("minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun CharArray.min():
Char? {\n    return minOrNull()\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince
= "1.4")\npublic inline fun <T, R : Comparable<R>> Array<out T>.minBy(selector: (T) -> R): T? {\n    return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline fun <R
: Comparable<R>> ByteArray.minBy(selector: (Byte) -> R): Byte? {\n    return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline fun <R
: Comparable<R>> ShortArray.minBy(selector: (Short) -> R): Short? {\n    return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline fun <R
: Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int? {\n    return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince
= "1.4")\npublic inline fun <R : Comparable<R>> LongArray.minBy(selector: (Long) -> R): Long? {\n    return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline fun <R
: Comparable<R>> FloatArray.minBy(selector: (Float) -> R): Float? {\n    return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline fun <R
: Comparable<R>> DoubleArray.minBy(selector: (Double) -> R): Double? {\n    return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline fun <R
: Comparable<R>> BooleanArray.minBy(selector: (Boolean) -> R): Boolean? {\n    return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline fun
<R : Comparable<R>> CharArray.minBy(selector: (Char) -> R): Char? {\n    return
minByOrNull(selector)\n}\n\n*/\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <T, R : Comparable<R>> Array<out T>.minByOrNull(selector: (T) ->
R): T? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex
== 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n
val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return

```

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minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null`
if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> ByteArray.minByOrNull(selector: (Byte) ->
R): Byte? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> ShortArray.minByOrNull(selector: (Short) ->
R): Short? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex
= this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in
1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n
minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value
of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> IntArray.minByOrNull(selector: (Int) -> R): Int? {\n if (isEmpty()) return null\n var minElem
= this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n *\n@SinceKotlin("1.4")\npublic inline
fun <R : Comparable<R>> LongArray.minByOrNull(selector: (Long) -> R): Long? {\n if (isEmpty()) return
null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var
minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if
(minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun
<R : Comparable<R>> FloatArray.minByOrNull(selector: (Float) -> R): Float?
{\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0)
return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v =
selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return
minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there
are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> DoubleArray.minByOrNull(selector: (Double)
-> R): Double? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n
minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element
yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> BooleanArray.minByOrNull(selector: (Boolean) -> R): Boolean? {\n if (isEmpty()) return
null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var
minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if
(minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n *\n@SinceKotlin("1.4")\npublic
inline fun <R : Comparable<R>> CharArray.minByOrNull(selector: (Char) -> R): Char? {\n if (isEmpty()) return
null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var

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minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if
(minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) ->
Double):
Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOf(selector: (Byte) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns
the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Double):
Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOf(selector: (Long) ->
Double): Double {\n
if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns
the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n

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minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

empty.\n

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
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empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOf(selector: (Byte) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
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empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is

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`NaN`.n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n
    var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOf(selector: (Long) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.minOf(selector: (Double) -> Float): Float {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n
    var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is
empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out
T>.minOf(selector: (T) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n

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minValue = v\n    }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.minOf(selector: (Byte) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n
minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.minOf(selector: (Short) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n
minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.minOf(selector: (Int) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n
minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> LongArray.minOf(selector: (Long) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.minOf(selector: (Float) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n
minValue =
v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.minOf(selector: (Double) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n
minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

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inline fun <R : Comparable<R>> BooleanArray.minOf(selector: (Boolean) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}
Returns the smallest value among all values produced by [selector] function
* applied to each element in the array.
* @throws NoSuchElementException if the array is empty.

*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@kotlin.internal.InlineOnlynpublic inline fun <R : Comparable<R>>
CharArray.minOf(selector: (Char) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}
Returns the smallest value among all values produced by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.

*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@kotlin.internal.InlineOnlynpublic inline fun <T> Array<out T>.minOfOrNull(selector:
(T) -> Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return
minValue
}
Returns the smallest value among all values produced by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.

*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@kotlin.internal.InlineOnlynpublic inline fun ByteArray.minOfOrNull(selector: (Byte) ->
Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
Returns the smallest value among all values produced by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.

*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@kotlin.internal.InlineOnlynpublic inline fun ShortArray.minOfOrNull(selector: (Short)
-> Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
Returns the smallest value among all values produced by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.

*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@kotlin.internal.InlineOnlynpublic inline fun IntArray.minOfOrNull(selector: (Int) ->
Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
Returns the smallest value among all values produced
by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@kotlin.internal.InlineOnlynpublic inline fun LongArray.minOfOrNull(selector: (Long) -
> Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
Returns the smallest value among all values produced by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun FloatArray.minOrNull(selector: (Float) -> Double): Double? {\n if (isEmpty()) return null\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOrNull(selector:
(Double) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *
\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOrNull(selector:
(Boolean) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n
minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`,
the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOrNull(selector: (Char) ->
Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns
the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null`
if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOrNull(selector:
(T) -> Float): Float? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *
\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOrNull(selector: (Byte) ->
Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each element
in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOrNull(selector: (Short) -
> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if

```

there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun IntArray.minOrNull(selector: (Int) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector]\n * function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOrNull(selector: (Long) -\n> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n
```

```
 * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the\n * array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the\n * returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOrNull(selector: (Float) ->\nFloat): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the\n * smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if\n * there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n * `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun DoubleArray.minOrNull(selector: (Double) -> Float): Float? {\n    if (isEmpty()) return null\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue =\n        minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of\n * values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOrNull(selector:
```

```
(Boolean) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for\n    (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\n    minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n * each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function\n * is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOrNull(selector: (Char) ->
```

```
Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the\n * smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if\n * there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun <T, R : Comparable<R>> Array<out T>.minOrNull(selector: (T) -> R): R? {\n    if (isEmpty()) return\n    null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n        (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value
```

among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
```

```
ByteArray.minOrNull(selector: (Byte) -> R): R? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n
```

```
        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return\n    minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
```

```
ShortArray.minOrNull(selector: (Short) -> R): R? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n
```

```
        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun <R : Comparable<R>> IntArray.minOrNull(selector: (Int) -> R): R? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n
```

```
        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all\n values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
```

```
LongArray.minOrNull(selector: (Long) -> R): R? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n
```

```
        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values\n produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
```

```
FloatArray.minOrNull(selector: (Float) -> R): R? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n
```

```
        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun <R : Comparable<R>> DoubleArray.minOrNull(selector: (Double) -> R): R? {\n    if (isEmpty())\n    return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n
```

```
        val v = selector(this[i])\n        if\n        (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value\n among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no\n elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
```

```
BooleanArray.minOrNull(selector: (Boolean) -> R): R? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n
```

```
        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the\n array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
```

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.minOfOrNull(selector: (Char) -> R): R? {\n  if (isEmpty()) return null\n  var minValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (minValue > v) {\n
minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Array<out T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n  if
(isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n
val v = selector(this[i])\n  if (comparator.compare(minValue, v) > 0) {\n    minValue = v\n    }\n  }\n
return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.minOfWith(comparator:
Comparator<in R>, selector: (Byte) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
minValue = selector(this[0])\n
  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n
minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.minOfWith(comparator:
Comparator<in R>, selector: (Short) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n    minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to
the provided [comparator]\n * among all values produced by [selector] function applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.minOfWith(comparator:
Comparator<in R>, selector: (Int) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue
= selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (comparator.compare(minValue,
v) > 0) {\n    minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value
according to the provided [comparator]\n * among all values produced by [selector] function applied to each
element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.minOfWith(comparator: Comparator<in R>, selector: (Long) -> R): R {\n  if
(isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n
val v = selector(this[i])\n  if (comparator.compare(minValue, v) > 0) {\n    minValue = v\n    }\n  }\n
return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.minOfWith(comparator:
Comparator<in R>, selector: (Float) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n

```

```

var minValue = selector(this[0])
for (i in 1..lastIndex) {
    val v = selector(this[i])
    if (comparator.compare(minValue, v) > 0) {
        minValue = v
    }
}
return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.
@throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> DoubleArray.minOfWith(comparator: Comparator<in R>, selector: (Double) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.
@throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> BooleanArray.minOfWith(comparator: Comparator<in R>, selector: (Boolean) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.
@throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> CharArray.minOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> ByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> ShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n  if
(isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n  if (isEmpty()) return
null\n  var minValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n
minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if
there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n  if (isEmpty()) return
null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n  if (isEmpty())
return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n  if
(isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n  if (isEmpty()) return
null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue,
v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest element or
`null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic fun Array<out Double>.minOrNull(): Double? {\n  if (isEmpty()) return null\n
var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    min = minOf(min, e)\n  }\n  return
min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is
`NaN` returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic fun Array<out Float>.minOrNull(): Float? {\n  if
(isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    min = minOf(min,

```

```

e)\n } \n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.minOrNull():
T? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no
elements.\n
*\n@SinceKotlin("1.4")\npublic fun ByteArray.minOrNull(): Byte? {\n if (isEmpty()) return null\n
var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return
min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun ShortArray.minOrNull(): Short? {\n if (isEmpty()) return null\n var min =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun IntArray.minOrNull(): Int? {\n if (isEmpty()) return null\n var min = this[0]\n
for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns
the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun LongArray.minOrNull(): Long? {\n if (isEmpty()) return null\n var min = this[0]\n
for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the
smallest element or `null` if there are no elements.\n
*\n * If any of elements is `NaN` returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic fun FloatArray.minOrNull(): Float? {\n if (isEmpty()) return null\n var min = this[0]\n
for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the
smallest element or `null`
if there are no elements.\n
*\n * If any of elements is `NaN` returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.minOrNull(): Double? {\n
if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min =
minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun CharArray.minOrNull(): Char? {\n if (isEmpty()) return null\n var min =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return
min\n}\n\n@Deprecated("Use minWithOrNull instead.")\n
ReplaceWith("minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
<T> Array<out T>.minWith(comparator: Comparator<in T>): T? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\n
ReplaceWith("minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use
minWithOrNull instead.")\n
ReplaceWith("minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
ShortArray.minWith(comparator: Comparator<in Short>): Short? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\n
ReplaceWith("minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
IntArray.minWith(comparator: Comparator<in Int>): Int? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\n
ReplaceWith("minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
LongArray.minWith(comparator: Comparator<in Long>): Long? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\n
ReplaceWith("minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
FloatArray.minWith(comparator: Comparator<in Float>): Float? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use
minWithOrNull instead.")\n
ReplaceWith("minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
DoubleArray.minWith(comparator: Comparator<in Double>): Double? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\n

```



```

Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 */
@sample
samples.collections.Collections.Aggregates.none

public fun IntArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 */
@sample
samples.collections.Collections.Aggregates.none

public fun LongArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 */
@sample
samples.collections.Collections.Aggregates.none

public fun FloatArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 */
@sample
samples.collections.Collections.Aggregates.none

public fun DoubleArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 */
@sample
samples.collections.Collections.Aggregates.none

public fun BooleanArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if no elements match the given [predicate].
 */
@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun <T> Array<out T>.none(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 */
@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun ByteArray.none(predicate: (Byte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 */
@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun ShortArray.none(predicate: (Short) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 */
@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun IntArray.none(predicate: (Int) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 */
@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun LongArray.none(predicate: (Long) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 */
@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun FloatArray.none(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 */
@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun DoubleArray.none(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 */
@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 */
@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun CharArray.none(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Performs the given [action] on each element and returns the array itself afterwards.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.onEach(action: (T) -> Unit): Array<out T> {
    return apply { for (element in this) action(element) }
}

/**
 * Performs the given [action] on each element and returns the array itself afterwards.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun ByteArray.onEach(action: (Byte) -> Unit): ByteArray {
    return apply { for (element in this) action(element) }
}

/**
 * Performs the given [action] on each element and returns the array itself afterwards.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline

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fun ShortArray.onEach(action: (Short) -> Unit): ShortArray {
    return apply { for (element in this)
        action(element) }
}

/** Performs the given [action] on each element and returns the array itself afterwards. */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun IntArray.onEach(action: (Int) -> Unit): IntArray {
    return apply { for (element in this)
        action(element) }
}

/** Performs the given [action] on each element and returns the array itself afterwards. */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun LongArray.onEach(action: (Long) -> Unit): LongArray {
    return apply { for (element in this)
        action(element) }
}

/** Performs the given [action] on each element and returns the array itself afterwards. */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun FloatArray.onEach(action: (Float) -> Unit): FloatArray {
    return apply { for (element in this)
        action(element) }
}

/** Performs the given [action] on each element and returns the array itself afterwards. */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun DoubleArray.onEach(action: (Double) -> Unit): DoubleArray {
    return apply { for (element in this)
        action(element) }
}

/** Performs the given [action] on each element and returns the array itself afterwards. */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun BooleanArray.onEach(action: (Boolean) -> Unit): BooleanArray {
    return apply { for (element in this)
        action(element) }
}

/** Performs the given [action] on each element and returns the array itself afterwards. */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun CharArray.onEach(action: (Char) -> Unit): CharArray {
    return apply { for (element in this)
        action(element) }
}

/** Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element. */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.onEachIndexed(action: (index: Int, T) -> Unit): Array<out T> {
    return apply { forEachIndexed(action) }
}

/** Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element. */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun ByteArray.onEachIndexed(action: (index: Int, Byte) -> Unit): ByteArray {
    return apply { forEachIndexed(action) }
}

/** Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element. */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun ShortArray.onEachIndexed(action: (index: Int, Short) -> Unit): ShortArray {
    return apply { forEachIndexed(action) }
}

/** Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element. */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun IntArray.onEachIndexed(action: (index: Int, Int) -> Unit): IntArray {
    return apply { forEachIndexed(action) }
}

/** Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element. */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun LongArray.onEachIndexed(action: (index: Int, Long) -> Unit): LongArray {
    return apply { forEachIndexed(action) }
}

/** Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element. */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun FloatArray.onEachIndexed(action: (index: Int, Float) -> Unit): FloatArray {
    return apply { forEachIndexed(action) }
}

/** Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element. */

```

the action on the element.\n

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.onEachIndexed(action:  
(index: Int, Double) -> Unit): DoubleArray {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun  
BooleanArray.onEachIndexed(action: (index: Int, Boolean) -> Unit): BooleanArray {\n    return apply {  
        forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index  
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an  
element and the element itself\n * and performs the action on the element.\n */\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic  
inline fun CharArray.onEachIndexed(action: (index: Int, Char) -> Unit): CharArray {\n    return apply {  
        forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]  
from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is  
empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its  
receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n */\n*\n@sample samples.collections.Collections.Aggregates.reduce\n*\npublic inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {\n    if (isEmpty())\n        throw  
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator: S = this[0]\n    for (index  
in 1..lastIndex) {\n        accumulator = operation(accumulator,  
            this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and  
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an  
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead.  
It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator  
value and an element,\n * and calculates the next accumulator value.\n */\n*\n@sample  
samples.collections.Collections.Aggregates.reduce\n*\npublic inline fun ByteArray.reduce(operation: (acc: Byte,  
Byte) -> Byte): Byte {\n    if (isEmpty())\n        throw UnsupportedOperationException("Empty array can't be  
reduced.")\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator =  
operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the  
first  
element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use  
[reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes  
current accumulator value and an element,\n * and calculates the next accumulator value.\n */\n*\n@sample  
samples.collections.Collections.Aggregates.reduce\n*\npublic inline fun ShortArray.reduce(operation: (acc: Short,  
Short) -> Short): Short {\n    if (isEmpty())\n        throw UnsupportedOperationException("Empty array can't be  
reduced.")\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator =  
operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the  
first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use  
[reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes  
current accumulator value and an element,\n * and calculates the next accumulator value.\n */\n*\n@sample  
samples.collections.Collections.Aggregates.reduce\n*\npublic inline fun IntArray.reduce(operation: (acc: Int, Int) -  
> Int): Int {\n    if (isEmpty())\n        throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]  
from left to right\n * to current accumulator value and each element.\n * \n * \n * Throws an exception if this array is  
empty. If the array can be empty in an expected way,\n * please use [reduceOrNull]
```

instead. It returns `null` when its receiver is empty.

```

    * @param [operation] function that takes current
    accumulator value and an element,
    * and calculates the next accumulator value.
    * @sample
    samples.collections.Collections.Aggregates.reduce
    */
    public inline fun LongArray.reduce(operation: (acc: Long,
    Long) -> Long): Long {
        if (isEmpty())
            throw UnsupportedOperationException("Empty array can't be
            reduced.")
        var accumulator = this[0]
        for (index in 1..lastIndex) {
            accumulator =
            operation(accumulator, this[index])
        }
        return accumulator
    }
    */
    * Accumulates value starting with the
    first element and applying [operation] from left to right
    * to current accumulator value and each element.
    * @sample
    Throws an exception if this array is empty. If the array can be empty in an expected way,
    * please use
    [reduceOrNull] instead. It returns `null` when its receiver is empty.
    * @param [operation] function that takes
    current accumulator value and an element,
    * and calculates the next accumulator value.
    * @sample
    samples.collections.Collections.Aggregates.reduce
    */
    public inline fun FloatArray.reduce(operation: (acc: Float,
    Float) -> Float): Float {
        if (isEmpty())
            throw UnsupportedOperationException("Empty array can't be
            reduced.")
        var accumulator = this[0]
        for (index in 1..lastIndex) {
            accumulator =
            operation(accumulator, this[index])
        }
        return accumulator
    }
    */
    * Accumulates value starting with the
    first element and applying [operation] from left to right
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    Throws an exception if this array is empty. If the array can be empty in an expected way,
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    current accumulator value and an element,
    * and calculates the next accumulator value.
    * @sample
    samples.collections.Collections.Aggregates.reduce
    */
    public inline fun DoubleArray.reduce(operation:
    (acc: Double, Double) -> Double): Double {
        if (isEmpty())
            throw
            UnsupportedOperationException("Empty array can't be reduced.")
        var accumulator = this[0]
        for (index in
        1..lastIndex) {
            accumulator = operation(accumulator, this[index])
        }
        return accumulator
    }
    */
    * Accumulates value starting with the first element and applying [operation] from left to right
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    * and calculates the next
    accumulator value.
    * @sample
    samples.collections.Collections.Aggregates.reduce
    */
    public inline fun
    BooleanArray.reduce(operation:
    (acc: Boolean, Boolean) -> Boolean): Boolean {
        if (isEmpty())
            throw
            UnsupportedOperationException("Empty array can't be reduced.")
        var accumulator = this[0]
        for (index in
        1..lastIndex) {
            accumulator = operation(accumulator, this[index])
        }
        return accumulator
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    accumulator value.
    * @sample
    samples.collections.Collections.Aggregates.reduce
    */
    public inline fun
    CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {
        if (isEmpty())
            throw
            UnsupportedOperationException("Empty
            array can't be reduced.")
        var accumulator = this[0]
        for (index in 1..lastIndex) {
            accumulator =
            operation(accumulator, this[index])
        }
        return accumulator
    }
    */
    * Accumulates value starting with the
    first element and applying [operation] from left to right
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    index in the original array.
    * @sample
    * Throws an exception if this array is empty. If the array can be empty in an
    expected way,
    * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
    * @param [operation] function that takes the index of an element, current accumulator value and the element itself,
    * and calculates the next accumulator value.
    * @sample
    samples.collections.Collections.Aggregates.reduce
    */
    public inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {
        if
        (isEmpty())
            throw UnsupportedOperationException("Empty

```

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array can't be reduced.}")\n    var accumulator: S = this[0]\n    for (index in 1..lastIndex) {\n        accumulator =
operation(index, accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element
with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in
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*/\n\npublic inline fun ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {\n    if
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calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
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original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n *
please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
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DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double {\n if (isEmpty())\n
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and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n * /\npublic inline fun
CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n if
(isEmpty())\n throw UnsupportedOperationException("Empty array can't
be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
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in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n * /\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> Array<out T>.reduceIndexedOrNull(operation: (index: Int,
acc: S, T) -> S): S? {\n if (isEmpty())\n return null\n var accumulator: S = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is
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samples.collections.Collections.Aggregates.reduceOrNull\n * /\n@SinceKotlin("1.4")\npublic inline fun
ByteArray.reduceIndexedOrNull(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
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ShortArray.reduceIndexedOrNull(operation: (index: Int, acc: Short, Short) -> Short): Short? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in

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1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n } \n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun
IntArray.reduceIndexedOrNull(operation: (index: Int, acc: Int, Int) -> Int): Int? {\n    if (isEmpty())\n        return
null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(index,
accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
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inline fun LongArray.reduceIndexedOrNull(operation: (index: Int, acc: Long, Long) -> Long): Long? {\n    if
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Float) -> Float): Float? {\n    if (isEmpty())\n        return null\n    var accumulator
= this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from
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DoubleArray.reduceIndexedOrNull(operation: (index: Int, acc: Double, Double) -> Double): Double? {\n    if
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*\n@SinceKotlin("1.4")\npublic inline fun BooleanArray.reduceIndexedOrNull(operation: (index: Int, acc:
Boolean, Boolean) -> Boolean): Boolean? {\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for
(index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
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*\n@SinceKotlin("1.4")\npublic inline fun CharArray.reduceIndexedOrNull(operation: (index: Int, acc: Char,
Char) -> Char): Char? {\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in
1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to

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right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n *
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accumulator value.\n * \n * @sample
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Array<out T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n if (isEmpty())\n return null\n var
accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
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ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte):
Byte? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n
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the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n *

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and calculates the next accumulator value.

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\n * \n * @sample
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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n
* Accumulates value starting with the
first element and applying [operation] from
left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n
* Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is
empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null`
when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun <S, T : S> Array<out
T>.reduceRight(operation: (T, acc: S) -> S): S {\n var index = lastIndex\n if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator: S = get(index--)\n while
(index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n
* Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes
an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun ByteArray.reduceRight(operation:
(Byte, acc: Byte) -> Byte): Byte {\n var index = lastIndex\n if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while
(index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n
* Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes an element and current accumulator value,\n * and calculates the next
accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun
ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {\n var index = lastIndex\n if (index < 0)
throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while
(index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return

```

```

accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\npublic inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {\n  var index = lastIndex\n  if
(index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator =
get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\npublic inline fun LongArray.reduceRight(operation:
(Long, acc: Long) -> Long):
Long {\n  var index = lastIndex\n  if (index < 0) throw UnsupportedOperationException("Empty array can't be
reduced.")\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--),
accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and
applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\npublic inline fun FloatArray.reduceRight(operation:
(Float, acc: Float) -> Float): Float {\n  var index = lastIndex\n  if (index < 0) throw
UnsupportedOperationException("Empty
array can't be reduced.")\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator =
operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\npublic inline fun DoubleArray.reduceRight(operation:
(Double, acc: Double) -> Double): Double {\n  var index = lastIndex\n  if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator
= get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\npublic inline fun
BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {\n  var index = lastIndex\n
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator =
get(index--)\n  while (index >= 0) {\n    accumulator
= operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with
the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n
* Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use

```

[reduceRightOrNull] instead. It returns `null` when its receiver is empty.

`@param [operation]` function that takes an element and current accumulator value, and calculates the next accumulator value.

`@sample`

```

samples.collections.Collections.Aggregates.reduceRight
public inline fun CharArray.reduceRight(operation:
(Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while
(index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

`@param [operation]` function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

`@sample`

```

samples.collections.Collections.Aggregates.reduceRight
public inline fun <S, T : S> Array<out
T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {
    var index = lastIndex
    if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = get(index--)
    while
(index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

`@param [operation]` function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

`@sample`

```

samples.collections.Collections.Aggregates.reduceRight
public inline fun
ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {
    var index =
lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var
accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index),
accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

`@param [operation]` function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

`@sample`

```

samples.collections.Collections.Aggregates.reduceRight
public inline fun
ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {
    var index =
lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var
accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return
accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

`@param [operation]` function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

`@sample`

```

samples.collections.Collections.Aggregates.reduceRight
public inline fun
IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator =
get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

```

[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 * public inline fun LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {
 *     var index = lastIndex
 *     if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 *     var accumulator = get(index--)
 *     while (index >= 0) {
 *         accumulator = operation(index, get(index), accumulator)
 *         --index
 *     }
 *     return accumulator
 * }
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator
 * value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 * public inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {
 *     var index = lastIndex
 *     if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 *     var accumulator = get(index--)
 *     while (index >= 0) {
 *         accumulator = operation(index, get(index), accumulator)
 *         --index
 *     }
 *     return accumulator
 * }
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator
 * value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 * public inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {
 *     var index = lastIndex
 *     if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 *     var accumulator = get(index--)
 *     while (index >= 0) {
 *         accumulator = operation(index, get(index), accumulator)
 *         --index
 *     }
 *     return accumulator
 * }
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator
 * value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 * public inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {
 *     var index = lastIndex
 *     if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 *     var accumulator = get(index--)
 *     while (index >= 0) {
 *         accumulator = operation(index, get(index), accumulator)
 *         --index
 *     }
 *     return accumulator
 * }
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator
 * value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 * public inline fun CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {
 *     var index = lastIndex
 *     if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 *     var accumulator = get(index--)
 *     while (index >= 0) {
 *         accumulator = operation(index, get(index), accumulator)
 *         --index
 *     }
 *     return accumulator
 * }
 * Accumulates value starting with the last element and applying [operation] from right to

```

left to each element with its index in the original array and current accumulator value. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*/n@SinceKotlin("1.4")npublic inline fun <S,
T : S> Array<out T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator: S = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*/n@SinceKotlin("1.4")npublic inline fun
ByteArray.reduceRightIndexedOrNull(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte? {
    var index =
lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator
= operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*/n@SinceKotlin("1.4")npublic inline fun
ShortArray.reduceRightIndexedOrNull(operation: (index: Int, Short, acc: Short) -> Short): Short? {
    var index =
lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*/n@SinceKotlin("1.4")npublic inline fun
IntArray.reduceRightIndexedOrNull(operation: (index: Int, Int, acc: Int) -> Int): Int? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*/n@SinceKotlin("1.4")npublic inline
fun LongArray.reduceRightIndexedOrNull(operation: (index: Int, Long, acc: Long) -> Long): Long? {
    var index =
lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*/n@SinceKotlin("1.4")npublic inline fun
FloatArray.reduceRightIndexedOrNull(operation: (index: Int, Float, acc: Float) -> Float): Float? {
    var index =
lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

sample.samples.collections.Collections.Aggregates.reduceRightOrNull

```

*^@SinceKotlin("1.4")\npublic inline fun DoubleArray.reduceRightIndexedOrNull(operation: (index: Int, Double, acc: Double) -> Double): Double? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n**\n* Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns `null` if the array is empty. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value. @sample sample.samples.collections.Collections.Aggregates.reduceRightOrNull
*^@SinceKotlin("1.4")\npublic inline fun BooleanArray.reduceRightIndexedOrNull(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n**\n* Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns `null` if the array is empty. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value. @sample sample.samples.collections.Collections.Aggregates.reduceRightOrNull
*^@SinceKotlin("1.4")\npublic inline fun CharArray.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n**\n* Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Returns `null` if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value. @sample sample.samples.collections.Collections.Aggregates.reduceRightOrNull
*^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Array<out T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator: S = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n**\n* Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Returns `null` if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value. @sample sample.samples.collections.Collections.Aggregates.reduceRightOrNull
*^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun ByteArray.reduceRightOrNull(operation: (Byte, acc: Byte) -> Byte): Byte? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n**\n* Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Returns `null` if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value. @sample sample.samples.collections.Collections.Aggregates.reduceRightOrNull
*^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun ShortArray.reduceRightOrNull(operation: (Short, acc: Short) -> Short): Short? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator =

```

operation(get(index--), accumulator)\n } \n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns `null` if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample

```
samples.collections.Collections.Aggregates.reduceRightOrNull\n\n*^n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic inline fun\nIntArray.reduceRightOrNull(operation: (Int, acc: Int) -> Int): Int? {\n var index = lastIndex\n if (index < 0)\n return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--),\n accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
```

```
samples.collections.Collections.Aggregates.reduceRightOrNull\n\n*^n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic inline fun\nLongArray.reduceRightOrNull(operation: (Long, acc: Long) -> Long): Long? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =\n operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
```

```
samples.collections.Collections.Aggregates.reduceRightOrNull\n\n*^n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic inline fun\nFloatArray.reduceRightOrNull(operation: (Float, acc: Float) -> Float): Float? {\n var index = lastIndex\n if\n (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =\n operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
```

```
samples.collections.Collections.Aggregates.reduceRightOrNull\n\n*^n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic inline fun\nDoubleArray.reduceRightOrNull(operation: (Double, acc: Double) -> Double): Double? {\n var index =\n lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
```

```
samples.collections.Collections.Aggregates.reduceRightOrNull\n\n*^n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic inline fun\nBooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {\n var index =\n lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
```

```
samples.collections.Collections.Aggregates.reduceRightOrNull\n\n*^n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic inline fun\nCharArray.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n var index = lastIndex\n if (index
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< 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator =
operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each element and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.runningFold\n */\n\n@SinceKotlin("1.4")\n\npublic
inline fun <T, R> Array<out T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {\n    if (isEmpty())
return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n
for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n *
\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n */\n\n@SinceKotlin("1.4")\n\n@kotlin.internal.InlineOnly\n\npublic
inline fun <R> ByteArray.runningFold(initial: R, operation: (acc: R, Byte) -> R): List<R> {\n    if (isEmpty())
return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n
for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n *
\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n */\n\n@SinceKotlin("1.4")\n\n@kotlin.internal.InlineOnly\n\npublic
inline fun <R> ShortArray.runningFold(initial: R, operation: (acc: R, Short) -> R): List<R> {\n    if (isEmpty())
return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n
for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n *
\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n */\n\n@SinceKotlin("1.4")\n\n@kotlin.internal.InlineOnly\n\npublic
inline fun <R> IntArray.runningFold(initial: R, operation: (acc: R, Int) -> R): List<R> {\n    if (isEmpty()) return
listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n
for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n *
\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n */\n\n@SinceKotlin("1.4")\n\n@kotlin.internal.InlineOnly\n\npublic

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inline fun <R> LongArray.runningFold(initial: R, operation: (acc: R, Long) -> R): List<R> {
    if (isEmpty())
    return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an
 element, and calculates the next accumulator value.
 * @sample
 samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly@public
inline fun <R> FloatArray.runningFold(initial: R, operation: (acc: R, Float) -> R): List<R> {
    if (isEmpty())
    return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an
 element, and calculates the next accumulator value.
 * @sample
 samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly@public
inline fun <R> DoubleArray.runningFold(initial: R, operation: (acc: R, Double) -> R): List<R> {
    if (isEmpty())
    return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an
 element, and calculates the next accumulator value.
 * @sample
 samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly@public inline fun <R> BooleanArray.runningFold(initial:
R, operation: (acc: R, Boolean) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result =
    ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to
 [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next
 accumulator value.
 * @sample
 samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly@public inline fun <R> CharArray.runningFold(initial: R,
operation: (acc: R, Char) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size
+ 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator =
        operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list
 containing successive accumulation values generated by applying [operation] from left to right
 * to each element,
 its index in the original array and current accumulator value that starts with [initial] value.
 * Note that `acc`
 value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in
 resulting list.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator
 */

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value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\npublic inline fun <T, R> Array<out T>.runningFoldIndexed(initial: R, operation:
(index: Int, acc: R, T) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size +
1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator =
operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n *
to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n *
Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n
for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous
value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n
for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n *
and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n
for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index
in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n *
and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n
for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n

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result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each element, its index in the
original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes the index of an element, current accumulator value\n * and the element
itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n    if (isEmpty())
return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n
for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n
        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n    if
(isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator
= initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n
        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n    if
(isEmpty())
return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n
for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n
        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.runningFoldIndexed(initial:
R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result =
ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n
        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n *
Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and the
element, and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
inline fun <S, T : S> Array<out T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n if (isEmpty()) return
emptyList()\n var accumulator: S = this[0]\n val result = ArrayList<S>(size).apply { add(accumulator) }\n for
(index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n
}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.runningReduce(operation:
(acc: Byte, Byte) -> Byte):
List<Byte> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result =
ArrayList<Byte>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =
operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function
that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.runningReduce(operation:
(acc: Short, Short) -> Short): List<Short> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n
val result = ArrayList<Short>(size).apply
{ add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.runningReduce(operation: (acc:
Int, Int) -> Int): List<Int> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result =
ArrayList<Int>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =
operation(accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.runningReduce(operation:
(acc: Long, Long) -> Long): List<Long> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n
val result = ArrayList<Long>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =
operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated
by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first
element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.runningReduce(operation:
(acc: Float, Float) -> Float): List<Float> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n
val result = ArrayList<Float>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =

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operation(accumulator, this[index])\n    result.add(accumulator)\n } \n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with the first
element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element,
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.runningReduce(operation:
(acc: Double, Double) -> Double): List<Double> {\n    if (isEmpty()) return emptyList()\n    var accumulator =
this[0]\n    val result = ArrayList<Double>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n
accumulator = operation(accumulator, this[index])\n    result.add(accumulator)\n } \n return result\n}\n\n/**\n
* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element and current accumulator value that starts with the first element of this array.\n * \n * @param
[operation] function that takes current accumulator value and an element,
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.runningReduce(operation:
(acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n    if (isEmpty()) return emptyList()\n    var accumulator =
this[0]\n    val result = ArrayList<Boolean>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n
accumulator = operation(accumulator, this[index])\n    result.add(accumulator)\n } \n return result\n}\n\n/**\n
* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element and current accumulator value that starts with the first element of this array.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.runningReduce(operation:
(acc: Char, Char) -> Char): List<Char> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val
result = ArrayList<Char>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n    accumulator =
operation(accumulator, this[index])\n    result.add(accumulator)\n } \n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element,
its index in the original array and current accumulator value that starts with the first element of this array.\n * \n *
Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> Array<out T>.runningReduceIndexed(operation: (index:
Int, acc: S, T) -> S): List<S> {\n    if (isEmpty()) return emptyList()\n    var accumulator: S = this[0]\n    val result =
ArrayList<S>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n    accumulator =
operation(index, accumulator, this[index])\n    result.add(accumulator)\n } \n return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element, its index in the original array and current accumulator value that starts with the first element of this
array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and
the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.runningReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {\n    if (isEmpty())
return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Byte>(size).apply { add(accumulator)
}\n    for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n } \n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and

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current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.runningReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {\n  if
(isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Short>(size).apply {
add(accumulator) }\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.runningReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {\n  if
(isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Int>(size).apply {
add(accumulator) }\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.runningReduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): List<Long> {\n  if
(isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Long>(size).apply {
add(accumulator) }\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.runningReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {\n  if
(isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Float>(size).apply {
add(accumulator) }\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.runningReduceIndexed(operation:
(index: Int, acc: Double, Double) -> Double): List<Double> {\n  if (isEmpty()) return emptyList()\n  var
accumulator = this[0]\n  val result = ArrayList<Double>(size).apply { add(accumulator) }\n  for (index in 1 until
size) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.runningReduceIndexed(operation:
(index: Int, acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n if (isEmpty()) return emptyList()\n var
accumulator = this[0]\n val result = ArrayList<Boolean>(size).apply { add(accumulator) }\n for (index in 1 until
size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.runningReduceIndexed(operation: (index: Int, acc:
Char, Char) -> Char): List<Char> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val
result = ArrayList<Char>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =
operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Array<out
T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> ByteArray.scan(initial: R, operation: (acc: R, Byte) -> R): List<R> {\n return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n
* Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> ShortArray.scan(initial: R, operation: (acc: R, Short) -> R): List<R> {\n return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n
* otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> IntArray.scan(initial: R, operation: (acc: R, Int) -> R): List<R> {\n return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]

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from left to right  
to each element and current accumulator value that starts with [initial] value.  
Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.  
@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator

```
value.  
@sample samples.collections.Collections.Aggregates.scan  
*  
@SinceKotlin("1.4")  
@WasExperimental(ExperimentalStdlibApi::class)  
@kotlin.internal.InlineOnly  
public inline fun <R> LongArray.scan(initial: R, operation: (acc: R, Long) -> R): List<R> {  
    return  
    runningFold(initial, operation)  
}  
Returns a list containing successive accumulation values generated by  
applying [operation] from left to right  
to each element and current accumulator value that starts with [initial]  
value.  
Note that `acc` value passed to [operation] function should not be mutated; otherwise it would  
affect the previous value in resulting list.  
@param [operation] function that takes current accumulator value  
and an element, and calculates the next accumulator value.  
@sample
```

```
samples.collections.Collections.Aggregates.scan  
*  
@SinceKotlin("1.4")  
@WasExperimental(ExperimentalStdlibApi::class)  
@kotlin.internal.InlineOnly  
public inline fun <R>
```

```
FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R> {  
    return runningFold(initial,  
    operation)  
}  
Returns a list containing successive accumulation values generated by applying [operation]  
from left to right  
to each element and current accumulator value that starts with [initial] value.  
Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in  
resulting list.  
@param [operation] function that takes current accumulator value and an element, and  
calculates the next accumulator value.  
@sample
```

```
samples.collections.Collections.Aggregates.scan  
*  
@SinceKotlin("1.4")  
@WasExperimental(ExperimentalStdlibApi::class)  
@kotlin.internal.InlineOnly  
public inline fun <R> DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {  
    return  
    runningFold(initial, operation)  
}  
Returns a list containing successive accumulation values generated  
by applying [operation] from left to right  
to each element and current accumulator value that starts with [initial]  
value.  
Note that `acc` value passed to [operation] function should not be mutated; otherwise it would  
affect the previous value in resulting list.  
@param [operation] function that takes current accumulator value  
and an element, and calculates the next accumulator value.  
@sample
```

```
samples.collections.Collections.Aggregates.scan  
*  
@SinceKotlin("1.4")  
@WasExperimental(ExperimentalStdlibApi::class)  
@kotlin.internal.InlineOnly  
public inline fun <R> BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {  
    return  
    runningFold(initial, operation)  
}  
Returns a list containing successive accumulation values generated by  
applying [operation] from left to right  
to each element and current accumulator value that starts with [initial]  
value.  
Note that `acc` value passed to [operation] function should
```

```
not be mutated; otherwise it would affect the previous value in resulting list.  
@param [operation]  
function that takes current accumulator value and an element, and calculates the next accumulator value.  
@sample  
samples.collections.Collections.Aggregates.scan
```

```
*  
@SinceKotlin("1.4")  
@WasExperimental(ExperimentalStdlibApi::class)  
@kotlin.internal.InlineOnly  
public inline fun <R> CharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {  
    return runningFold(initial,  
    operation)  
}  
Returns a list containing successive accumulation values generated by applying [operation]  
from left to right  
to each element, its index in the original array and current accumulator value that starts with  
[initial] value.  
Note that `acc` value passed to [operation] function should not be mutated; otherwise it  
would affect the previous value in resulting list.  
@param [operation] function that takes the index of an  
element, current
```

```
accumulator value  
and the element itself, and calculates the next accumulator value.  
@sample  
samples.collections.Collections.Aggregates.scan
```

```
*  
@SinceKotlin("1.4")  
@WasExperimental(ExperimentalStdlibApi::class)  
public inline fun <T, R>  
Array<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {  
    return
```

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runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n  return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c
inline fun <R> ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n  return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> IntArray.scanIndexed(initial: R, operation: (index:
Int, acc: R, Int) -> R): List<R> {\n  return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element,
its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n *
and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> LongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n  return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated
by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator
value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function
that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n  return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left
to right\n * to each element, its index in the original array and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element,

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current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n
return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n
return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n
return
runningFoldIndexed(initial, operation)\n}\n\n@Deprecated("Use runningReduce instead.\n",
ReplaceWith("runningReduce(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S>
Array<out T>.scanReduce(operation: (acc: S, T) -> S): List<S> {\n
return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.\n",
ReplaceWith("runningReduce(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
c
inline fun ByteArray.scanReduce(operation: (acc: Byte, Byte) -> Byte): List<Byte> {\n
return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.\n",
ReplaceWith("runningReduce(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
c inline fun ShortArray.scanReduce(operation: (acc: Short, Short) -> Short): List<Short> {\n
return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.\n",
ReplaceWith("runningReduce(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
c inline fun IntArray.scanReduce(operation: (acc: Int, Int) -> Int): List<Int> {\n
return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.\n",
ReplaceWith("runningReduce(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
c
inline fun LongArray.scanReduce(operation: (acc: Long, Long) -> Long): List<Long> {\n
return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.\n",
ReplaceWith("runningReduce(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
c inline fun FloatArray.scanReduce(operation: (acc: Float, Float) -> Float): List<Float> {\n
return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.\n",

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ReplaceWith("\runningReduce(operation)\"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun DoubleArray.scanReduce(operation: (acc: Double, Double) -> Double): List<Double> {\n  return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.\",
ReplaceWith("\runningReduce(operation)\"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c
inline fun BooleanArray.scanReduce(operation: (acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n  return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.\",
ReplaceWith("\runningReduce(operation)\"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun CharArray.scanReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n  return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.\",
ReplaceWith("\runningReduceIndexed(operation)\"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S>
Array<out T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n  return
runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.\",
ReplaceWith("\runningReduceIndexed(operation)\"),
level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun ByteArray.scanReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {\n  return
runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.\",
ReplaceWith("\runningReduceIndexed(operation)\"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun ShortArray.scanReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {\n
return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.\",
ReplaceWith("\runningReduceIndexed(operation)\"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun IntArray.scanReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {\n  return
runningReduceIndexed(operation)\n}\n\n@Deprecated("Use
runningReduceIndexed instead.\", ReplaceWith("\runningReduceIndexed(operation)\"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun LongArray.scanReduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): List<Long> {\n
return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.\",
ReplaceWith("\runningReduceIndexed(operation)\"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun FloatArray.scanReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {\n
return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.\",
ReplaceWith("\runningReduceIndexed(operation)\"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun DoubleArray.scanReduceIndexed(operation:
(index: Int, acc: Double, Double) -> Double): List<Double> {\n  return
runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.\",
ReplaceWith("\runningReduceIndexed(operation)\"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun BooleanArray.scanReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean):
List<Boolean> {\n  return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed
instead.\", ReplaceWith("\runningReduceIndexed(operation)\"), level =

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DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.scanReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n
return runningReduceIndexed(operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the
array.\n */\npublic inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int {\n    var sum: Int = 0\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n */\npublic inline fun
ByteArray.sumBy(selector: (Byte) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\npublic inline fun ShortArray.sumBy(selector: (Short) -> Int): Int {\n    var
sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun
IntArray.sumBy(selector: (Int) -> Int): Int {\n    var sum: Int = 0\n    for (element
in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n */\npublic inline fun LongArray.sumBy(selector:
(Long) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n */\npublic inline fun FloatArray.sumBy(selector: (Float) -> Int): Int {\n    var sum: Int = 0\n    for (element
in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n */\npublic inline fun DoubleArray.sumBy(selector:
(Double) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n */\npublic inline fun
BooleanArray.sumBy(selector: (Boolean) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\npublic inline fun CharArray.sumBy(selector: (Char) -> Int): Int {\n    var
sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun
<T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\npublic inline
fun ByteArray.sumByDouble(selector: (Byte) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\npublic inline fun ShortArray.sumByDouble(selector:
(Short) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each
element in the array.\n */\npublic inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {\n    var
sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic
inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double
{\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n */\npublic inline fun FloatArray.sumByDouble(selector: (Float) -> Double): Double {\n    var sum: Double
= 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum
of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun
DoubleArray.sumByDouble(selector: (Double) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\npublic inline fun

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BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {\n  var sum: Double = 0.0\n  for (element
in this)
  {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n\npublic inline fun CharArray.sumByDouble(selector:
(Char) -> Double): Double {\n  var sum: Double = 0.0\n  for (element in this) {\n    sum += selector(element)\n
  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each
element in the array.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.sumOf(selector: (T) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element
in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.sumOf(selector: (Byte) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for
(element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sumOf(selector: (Short) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element in
this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the
array.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.sumOf(selector: (Int) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element in this)
{\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sumOf(selector: (Long) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element in
this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element
in the array.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sumOf(selector: (Float) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element in
this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.sumOf(selector: (Double) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element
in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied
to each element in the array.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.sumOf(selector: (Boolean) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for

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(element in this) {\n    sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.sumOf(selector: (Char) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Array<out T>.sumOf(selector: (T) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.sumOf(selector: (Byte) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied
to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sumOf(selector: (Short) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.sumOf(selector: (Int) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in
the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sumOf(selector: (Long) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sumOf(selector: (Float) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.sumOf(selector: (Double) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.sumOf(selector: (Boolean) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n

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sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic
inline fun CharArray.sumOf(selector: (Char) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n
sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.sumOf(selector: (T) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this)
{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.sumOf(selector: (Byte) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in
this) {\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sumOf(selector: (Short) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.sumOf(selector: (Int) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this)
{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sumOf(selector: (Long) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic
inline fun FloatArray.sumOf(selector: (Float) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in
this) {\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.sumOf(selector: (Double) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this)
{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic
inline fun BooleanArray.sumOf(selector: (Boolean) -> Long): Long {\n var sum: Long = 0.toLong()\n for
(element in this) {\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.sumOf(selector: (Char) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n
sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal
.InlineOnly\npublic
inline fun <T> Array<out T>.sumOf(selector: (T) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element
in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal
.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n
for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal
.InlineOnly\npublic
inline fun ShortArray.sumOf(selector: (Short) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal
.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal
.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n
for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal
.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n
for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the
sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal
.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> UInt): UInt {\n    var sum: UInt =
0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the
sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal
.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> UInt): UInt {\n    var sum: UInt =
0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each
element in the array.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal
.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n
for (element in this) {\n    sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> ULong): ULong {\n    var sum: ULong
= 0.toULong()\n
    for (element in this) {\n    sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> ULong): ULong {\n    var sum: ULong =
0.toULong()\n    for (element in this) {\n    sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short)
-> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n    sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> ULong): ULong {\n    var sum: ULong =
0.toULong()\n    for (element in this) {\n    sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic
    inline fun LongArray.sumOf(selector: (Long) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for
(element in this) {\n    sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> ULong): ULong {\n    var sum: ULong =
0.toULong()\n    for (element in this) {\n    sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic
    inline fun DoubleArray.sumOf(selector: (Double) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for
(element in this) {\n    sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> ULong): ULong {\n    var sum:
ULong = 0.toULong()\n    for (element in this) {\n    sum += selector(element)\n    }\n    return sum\n}\n\n/**\n *

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Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter\nnal.InlineOnly\npublic\ninline fun CharArray.sumOf(selector: (Char) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for\n(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns an original collection\ncontaining all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n\n*\npublic fun <T : Any> Array<T?>.requireNonNulls(): Array<T> {\n    for (element in this) {\n        if (element ==\nnull) {\n            throw IllegalArgumentException("null element found in $this.")\n        }\n    }\n    @Suppress("UNCHECKED_CAST")\n    return this as Array<T>\n}\n\n/**\n * Splits the original array into pair\nof lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains\nelements for which [predicate] yielded `false`.\n * \n * @sample\n\nsamples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n\n*\npublic inline fun <T> Array<out\nT>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n    val first = ArrayList<T>()\n    val second =\nArrayList<T>()\n    for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair\nof lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains\nelements for which [predicate] yielded `false`.\n * \n * @sample\n\nsamples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n\n*\npublic inline fun\nByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {\n    val first =\nArrayList<Byte>()\n    val second = ArrayList<Byte>()\n    for (element in this) {\n        if (predicate(element)) {\n\nfirst.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first,\nsecond)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which\n[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample\n\nsamples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n\n*\npublic inline fun\nShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {\n    val first =\nArrayList<Short>()\n    val second = ArrayList<Short>()\n    for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first,\nsecond)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which\n[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]\nyielded `false`.\n * \n * @sample\n\nsamples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n\n*\npublic inline fun IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {\n    val first =\nArrayList<Int>()\n    val second = ArrayList<Int>()\n    for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first,\nsecond)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which\n[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample\n\nsamples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n\n*\npublic inline fun\nLongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>, List<Long>> {\n    val first =\nArrayList<Long>()\n    val second = ArrayList<Long>()\n    for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains\nelements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]\nyielded `false`.\n * \n * @sample\n\nsamples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n\n*\npublic inline fun FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {\n    val\nfirst = ArrayList<Float>()\n    val second = ArrayList<Float>()\n    for (element in this) {\n        if\n(predicate(element)) {\n            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains

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elements for which [predicate] yielded `true`,\n * while *second*
list contains elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun
DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {\n   val first =
ArrayList<Double>()\n   val second = ArrayList<Double>()\n   for (element in this) {\n       if (predicate(element))
{\n           first.add(element)\n       } else {\n           second.add(element)\n       }\n   }\n   return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun
BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {\n   val first =
ArrayList<Boolean>()\n   val second = ArrayList<Boolean>()\n   for (element in this) {\n       if (predicate(element)) {\n
first.add(element)\n       } else {\n           second.add(element)\n       }\n   }\n   return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun
CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {\n   val first =
ArrayList<Char>()\n   val second = ArrayList<Char>()\n   for (element in this) {\n       if (predicate(element)) {\n
first.add(element)\n       } else {\n           second.add(element)\n       }\n   }\n   return Pair(first,
second)\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array
and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Array<out T>.zip(other:
Array<out R>): List<Pair<T, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
<R> ByteArray.zip(other: Array<out R>): List<Pair<Byte, R>> {\n   return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ShortArray.zip(other: Array<out
R>): List<Pair<Short, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R>
IntArray.zip(other: Array<out R>): List<Pair<Int, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> LongArray.zip(other: Array<out
R>): List<Pair<Long, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
<R> FloatArray.zip(other: Array<out R>): List<Pair<Float, R>> {\n   return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> DoubleArray.zip(other: Array<out
R>): List<Pair<Double, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R>
BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>> {\n   return zip(other) { t1, t2 -> t1 to t2
}

```

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    }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
 * index.
 * The returned list has length of the shortest collection.
 * @sample
 * samples.collections.Iterables.Operations.zipIterable
 */
public infix fun <R> CharArray.zip(other: Array<out R>):
List<Pair<Char, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of values built from the
 * elements of `this` array and the [other] array with the same index
 * using the provided [transform] function
 * applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample
 * samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <T, R, V> Array<out
T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array
 * with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned
 * list has length of the shortest collection.
 * @sample
 * samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <R, V>
ByteArray.zip(other: Array<out R>, transform: (a: Byte, b: R) -> V): List<V> {
    val size = minOf(size,
other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array
 * with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned
 * list has length of the shortest collection.
 * @sample
 * samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public
inline fun <R, V> ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {
    val size =
minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i],
other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array
 * with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned
 * list has length of the shortest collection.
 * @sample
 * samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <R, V>
IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return
list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other]
 * array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The
 * returned list has length of the shortest collection.
 * @sample
 * samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <R, V>
LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {
    val size = minOf(size,
other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array
 * with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned
 * list has length of the shortest collection.
 * @sample
 * samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <R, V>
FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements
 * of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each
 * pair of elements.
 * The returned list has length of the shortest collection.
 * @sample
 * samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <R, V>
DoubleArray.zip(other: Array<out R>, transform: (a: Double, b: R) -> V): List<V> {
    val size = minOf(size,
other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array
 * with the same index
 * using the provided [transform] function applied to each pair of
 */

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elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V>
BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V>
CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size)
{\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <T, R>
Array<out T>.zip(other: Iterable<R>): List<Pair<T, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R> ByteArray.zip(other: Iterable<R>):
List<Pair<Byte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` collection and [other] array with the same index.\n * The returned list has length
of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic infix
fun <R> ShortArray.zip(other: Iterable<R>): List<Pair<Short, R>> {\n    return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R> IntArray.zip(other: Iterable<R>):
List<Pair<Int, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R>
LongArray.zip(other: Iterable<R>): List<Pair<Long, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R> FloatArray.zip(other: Iterable<R>):
List<Pair<Float, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R>
DoubleArray.zip(other: Iterable<R>): List<Pair<Double, R>> {\n    return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun <R> BooleanArray.zip(other: Iterable<R>): List<Pair<Boolean, R>> {\n    return zip(other) {
t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array
with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R> CharArray.zip(other: Iterable<R>):
List<Pair<Char, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the
elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function
applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <T, R, V> Array<out
T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n

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    val arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i =
0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with
the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list
has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V>
ByteArray.zip(other: Iterable<R>, transform: (a: Byte, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n
if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns
a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline
fun <R, V> ShortArray.zip(other: Iterable<R>, transform: (a: Short, b: R) -> V): List<V> {\n    val arraySize =
size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element
in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V>
IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {\n    val
arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n
for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V>
LongArray.zip(other: Iterable<R>, transform: (a: Long, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n
for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V>
FloatArray.zip(other: Iterable<R>, transform: (a: Float, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n
if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V>
DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {\n    val arraySize = size\n    val
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other)
{\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n *
Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n *
using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic
inline fun <R, V> BooleanArray.zip(other: Iterable<R>, transform:

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(a: Boolean, b: R) -> V): List<V> {\n  val arraySize = size\n  val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n
if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline
fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {\n  val arraySize = size\n
val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in
other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the
same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun ByteArray.zip(other: ByteArray):
List<Pair<Byte, Byte>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
ShortArray.zip(other: ShortArray): List<Pair<Short, Short>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun IntArray.zip(other: IntArray): List<Pair<Int, Int>> {\n  return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun LongArray.zip(other: LongArray):
List<Pair<Long, Long>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
FloatArray.zip(other: FloatArray): List<Pair<Float, Float>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the
[other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun DoubleArray.zip(other: DoubleArray):
List<Pair<Double, Double>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
BooleanArray.zip(other: BooleanArray): List<Pair<Boolean, Boolean>> {\n  return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun CharArray.zip(other: CharArray):
List<Pair<Char, Char>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from
the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function
applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> ByteArray.zip(other:
ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list =
ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length
of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> ShortArray.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V> {\n  val
size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n

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list.add(transform(this[i], other[i]))\n } \n return list\n\n\n\n * Returns a list of values built from the elements
of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V> IntArray.zip(other:
IntArray, transform: (a: Int, b: Int) -> V): List<V> {\n val size = minOf(size, other.size)\n val list =
ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n } \n return
list\n}\n\n\n\n * Returns a list of values built from the elements
of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n\n\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) ->
V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n
list.add(transform(this[i], other[i]))\n } \n return list\n}\n\n\n\n * Returns a list of values built from the
elements of `this` array and the [other] array with the same index\n * using the provided [transform] function
applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n\n\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to
each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {\n val size =
minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i],
other[i]))\n } \n return list\n}\n\n\n\n * Returns a list of values built from the elements of `this` array and the
[other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n *
The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until
size) {\n list.add(transform(this[i], other[i]))\n } \n return list\n}\n\n\n\n * Appends the string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will
be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n *\npublic fun <T, A : Appendable> Array<out
T>.joinTo(buffer: A, separator: CharSequence = '\n', prefix: CharSequence = "", postfix: CharSequence = "",
limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n
if (limit < 0 || count <= limit) {\n buffer.appendElement(element, transform)\n
} else break\n } \n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n
return buffer\n}\n\n\n\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of

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[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> ByteArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "\n", postfix:
CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((Byte) -> CharSequence)? =
null): A {\n  buffer.append(prefix)\n  var count = 0\n  for (element in this) {\n    if (++count > 1)
buffer.append(separator)\n    if (limit < 0 || count <= limit) {\n
      if (transform != null)\n        buffer.append(transform(element))\n      else\n
buffer.append(element.toString())\n    } else break\n  }\n  if (limit >= 0 && count > limit)
buffer.append(truncated)\n  buffer.append(postfix)\n  return buffer\n}\n\n/**\n * Appends the string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will
be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A : Appendable>
ShortArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence
= "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((Short) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n
  var count = 0\n  for (element in this) {\n    if (++count > 1) buffer.append(separator)\n    if (limit < 0 || count
<= limit) {\n      if (transform != null)\n        buffer.append(transform(element))\n      else\n
buffer.append(element.toString())\n    } else break\n  }\n  if (limit >= 0 && count > limit)
buffer.append(truncated)\n  buffer.append(postfix)\n  return buffer\n}\n\n/**\n * Appends the string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will
be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A : Appendable> IntArray.joinTo(buffer:
A, separator: CharSequence = ", ", prefix: CharSequence
= "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((Int) ->
CharSequence)? = null): A {\n  buffer.append(prefix)\n  var count = 0\n  for (element in this) {\n    if (++count
> 1) buffer.append(separator)\n    if (limit < 0 || count <= limit) {\n      if (transform != null)\n
buffer.append(transform(element))\n      else\n        buffer.append(element.toString())\n    } else break\n
}\n  if (limit >= 0 && count > limit) buffer.append(truncated)\n  buffer.append(postfix)\n  return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n
*\npublic fun <A : Appendable> LongArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix:
CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform:
((Long) -> CharSequence)? = null): A {\n  buffer.append(prefix)\n  var count = 0\n  for (element in this) {\n
if (++count > 1) buffer.append(separator)\n    if (limit < 0 || count <= limit) {\n      if (transform != null)\n
buffer.append(transform(element))\n      else\n        buffer.append(element.toString())\n    } else
break\n  }\n  if (limit >= 0 && count > limit) buffer.append(truncated)\n  buffer.append(postfix)\n  return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which
case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to
"...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "\n", postfix:
CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((Float) -> CharSequence)? =
null): A {\n  buffer.append(prefix)\n  var count = 0\n  for (element in this) {\n    if (++count > 1)

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buffer.append(separator)\n    if (limit < 0 || count <= limit) {\n        if (transform != null)\nbuffer.append(transform(element))\n        else\n            buffer.append(element.toString())\n    } else break\n}\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator]
and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-
negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the
[truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable>
DoubleArray.joinTo(buffer: A, separator: CharSequence = '\n', prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Double) -> CharSequence)? =
null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1)
buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if (transform != null)\nbuffer.append(transform(element))\n            else\n                buffer.append(element.toString())\n        } else break\n
}\n    if (limit >= 0 && count
> limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n * Appends the string from
all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the
collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n *
elements will be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable>
BooleanArray.joinTo(buffer: A, separator: CharSequence = '\n', prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) -> CharSequence)? =
null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1)
buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if (transform != null)\nbuffer.append(transform(element))\n            else\n                buffer.append(element.toString())\n        } else break\n
}\n    if (limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A :
Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = '\n', prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Char) -> CharSequence)? =
null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in
this) {\n        if (++count > 1) buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if (transform
!= null)\n            buffer.append(transform(element))\n            else\n                buffer.append(element)\n        } else
break\n    }\n    if (limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return
buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix]
and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in
which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to
"...").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T>
Array<out T>.joinToString(separator: CharSequence = '\n', prefix: CharSequence = \"\", postfix: CharSequence =
\"\", limit: Int = -1, truncated: CharSequence
= \"...\", transform: ((T) -> CharSequence)? = null): String {\n    return joinTo(StringBuilder(), separator, prefix,
postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using
[separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can
specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed
by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n */\npublic fun ByteArray.joinToString(separator:
CharSequence = '\n', prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:

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CharSequence = "...", transform: ((Byte) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}
/**
 * Creates a string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 *
 * If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]
 *
elements will
be appended, followed by the [truncated] string (which defaults to "...").
 *
 * @sample
samples.collections.Collections.Transformations.joinToString
 *
public fun ShortArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Short) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}
/**
 * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.
 *
 * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]
 *
elements will
be appended, followed by the [truncated] string (which defaults to "...").
 *
 * @sample
samples.collections.Collections.Transformations.joinToString
 *
public fun IntArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Int) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}
/**
 * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.
 *
 * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]
 *
elements will
be appended, followed by the [truncated] string (which defaults to "...").
 *
 * @sample
samples.collections.Collections.Transformations.joinToString
 *
public fun LongArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Long) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}
/**
 * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.
 *
 * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]
 *
elements will
be appended, followed by the [truncated] string (which defaults to "...").
 *
 * @sample
samples.collections.Collections.Transformations.joinToString
 *
public fun FloatArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Float) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}
/**
 * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.
 *
 * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]
 *
elements will
be appended, followed by the [truncated] string (which defaults to "...").
 *
 * @sample
samples.collections.Collections.Transformations.joinToString
 *
public fun DoubleArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Double) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}
/**
 * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.
 *
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
[limit]
 *
elements will
be appended, followed by the [truncated] string (which defaults to "...").
 *
 * @sample
samples.collections.Collections.Transformations.joinToString
 *
public fun
BooleanArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence =
"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Boolean) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}
/**
 * Creates
a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 *
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
[limit]
 *
elements will
be appended, followed by the [truncated] string (which defaults

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to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n *^\npublic fun
CharArray.joinToString(separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence = "\",
limit: Int = -1, truncated: CharSequence = "...\", transform: ((Char) -> CharSequence)? = null): String {\n return
joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original array returning its elements when being iterated.\n *^\npublic fun <T>
Array<out T>.asIterable(): Iterable<T> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator()
}\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being
iterated.\n *^\npublic fun ByteArray.asIterable(): Iterable<Byte> {\n if (isEmpty()) return emptyList()\n return
Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance
that wraps the original array returning its elements when being iterated.\n *^\npublic fun ShortArray.asIterable():
Iterable<Short> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original array returning its elements when being iterated.\n *^\npublic fun
IntArray.asIterable(): Iterable<Int> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator()
}\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being
iterated.\n *^\npublic fun LongArray.asIterable(): Iterable<Long> {\n if (isEmpty()) return emptyList()\n return
Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its
elements when being iterated.\n *^\npublic fun FloatArray.asIterable(): Iterable<Float> {\n if (isEmpty()) return
emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n
* Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n *^\npublic
fun DoubleArray.asIterable(): Iterable<Double> {\n if (isEmpty()) return emptyList()\n return Iterable {
this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when
being iterated.\n *^\npublic fun BooleanArray.asIterable(): Iterable<Boolean> {\n if (isEmpty()) return
emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.\n *^\npublic fun CharArray.asIterable(): Iterable<Char> {\n if
(isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that
wraps the original array returning its elements when being iterated.\n * \n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n *^\npublic fun <T> Array<out T>.asSequence():
Sequence<T> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n *^\npublic fun ByteArray.asSequence():
Sequence<Byte> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n *^\npublic fun ShortArray.asSequence():
Sequence<Short> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n *^\npublic fun IntArray.asSequence():
Sequence<Int> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n *^\npublic fun LongArray.asSequence():
Sequence<Long> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n *^\npublic fun FloatArray.asSequence():
Sequence<Float> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n *^\npublic fun DoubleArray.asSequence():
Sequence<Double> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n *^\npublic fun

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BooleanArray.asSequence(): Sequence<Boolean> {\n  if (isEmpty()) return emptySequence()\n  return Sequence
{ this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements
when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic
fun CharArray.asSequence(): Sequence<Char> {\n  if (isEmpty()) return emptySequence()\n  return Sequence {
this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n@kotlin.jvm.JvmName("averageOfByte")\npublic fun Array<out Byte>.average(): Double {\n  var sum:
Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else
sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n@kotlin.jvm.JvmName("averageOfShort")\npublic fun Array<out Short>.average(): Double {\n  var sum:
Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n@kotlin.jvm.JvmName("averageOfInt")\npublic fun Array<out Int>.average(): Double {\n  var sum: Double
= 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count
== 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n@kotlin.jvm.JvmName("averageOfLong")\npublic fun Array<out Long>.average(): Double {\n  var sum:
Double =
0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count
== 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun Array<out Float>.average(): Double {\n  var sum:
Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n@kotlin.jvm.JvmName("averageOfDouble")\npublic fun Array<out Double>.average(): Double {\n  var sum:
Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\npublic fun ByteArray.average(): Double {\n  var sum: Double = 0.0\n  var count:
Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN
else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun
ShortArray.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n
sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the array.\n */\npublic fun IntArray.average(): Double {\n  var sum: Double = 0.0\n
var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0)
Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun
LongArray.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n
sum += element\n    ++count\n  }\n  return if (count
== 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic
fun FloatArray.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n
sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the array.\n */\npublic fun DoubleArray.average(): Double {\n  var sum: Double =
0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count
== 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun Array<out Byte>.sum(): Int {\n  var sum: Int = 0\n  for
(element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all elements in the
array.\n */\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun Array<out Short>.sum():
Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/**\n *
Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun Array<out
Int>.sum(): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n

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*^@kotlin.jvm.JvmName("sumOfLong")\npublic fun Array<out Long>.sum(): Long {\n    var sum: Long = 0L\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n*^@kotlin.jvm.JvmName("sumOfFloat")\npublic fun Array<out Float>.sum(): Float {\n    var sum: Float = 0.0f\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n*^@kotlin.jvm.JvmName("sumOfDouble")\npublic fun Array<out Double>.sum(): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n\npublic fun ByteArray.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n\npublic fun ShortArray.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n\npublic fun IntArray.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n\npublic fun LongArray.sum(): Long {\n    var sum: Long = 0L\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n\npublic fun FloatArray.sum(): Float {\n    var sum: Float = 0.0f\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n\npublic fun DoubleArray.sum(): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n"/\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n\n*^@file:kotlin.jvm.JvmMultifileClass\n*^@file:kotlin.jvm.JvmName("RangesKt")\n\npackage kotlin.ranges\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns a random element from this range.\n */\n\n * @throws IllegalArgumentException if this range is empty.\n\n\n*^@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.random(): Int {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n */\n\n * @throws IllegalArgumentException if this range is empty.\n\n\n*^@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun LongRange.random(): Long {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n */\n\n * @throws IllegalArgumentException if this range is empty.\n\n\n*^@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.random(): Char {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n */\n\n * @throws IllegalArgumentException if this range is empty.\n\n\n*^@SinceKotlin("1.3")\npublic fun IntRange.random(random: Random): Int {\n    try {\n        return random.nextInt(this)\n    } catch (e: IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n */\n\n * @throws IllegalArgumentException if this range is empty.\n\n\n*^@SinceKotlin("1.3")\npublic fun LongRange.random(random: Random): Long {\n    try {\n        return random.nextLong(this)\n    } catch (e: IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n */\n\n * @throws IllegalArgumentException if this range is empty.\n\n\n*^@SinceKotlin("1.3")\npublic fun CharRange.random(random: Random): Char {\n    try {\n        return random.nextInt(first.toInt(), last.toInt() + 1).toChar()\n    } catch (e: IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n\n\n*^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.randomOrNull(): Int? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n
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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongRange.randomOrNull(): Long? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun IntRange.randomOrNull(random: Random): Int? {\n    if (isEmpty())\n        return null\n    return random.nextInt(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun LongRange.randomOrNull(random: Random): Long? {\n    if (isEmpty())\n        return null\n    return random.nextLong(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun CharRange.randomOrNull(random: Random): Char? {\n    if (isEmpty())\n        return null\n    return random.nextInt(first.toInt(), last.toInt() + 1).toChar()\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * Always returns `false` if the [element] is `null`.\n */\n*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun IntRange.contains(element: Int?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * Always returns `false` if the [element] is `null`.\n */\n*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun LongRange.contains(element: Long?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * Always returns `false` if the [element] is `null`.\n */\n*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun CharRange.contains(element: Char?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value: Byte): Boolean {\n    return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun ClosedRange<Long>.contains(value: Byte): Boolean {\n    return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value: Byte): Boolean {\n    return contains(value.toShort())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun ClosedRange<Double>.contains(value: Byte): Boolean {\n    return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value: Byte): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value: Double): Boolean {\n    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *

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Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince =
\"1.4\")\n@kotlin.jvm.JvmName("longRangeContains")\npublic
operator fun ClosedRange<Long>.contains(value: Double): Boolean {\n return value.toLongExactOrNull().let {
if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince =
\"1.4\")\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value:
Double): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince =
\"1.4\")\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun
ClosedRange<Short>.contains(value:
Double): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("floatRangeContains")\npublic
operator fun ClosedRange<Float>.contains(value: Double): Boolean {\n return
contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince =
\"1.4\")\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value:
Float): Boolean {\n return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer
and floating point arguments
has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = \"1.3\",
errorSince = \"1.4\")\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun
ClosedRange<Long>.contains(value: Float): Boolean {\n return value.toLongExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince =
\"1.4\")\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value:
Float): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics
and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince =
\"1.4\")\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun
ClosedRange<Short>.contains(value: Float): Boolean {\n return value.toShortExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun ClosedRange<Double>.contains(value:
Float): Boolean {\n return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this
range.\n *\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun
ClosedRange<Long>.contains(value: Int): Boolean {\n return contains(value.toLong())\n}\n\n/**\n * Checks if the
specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun
ClosedRange<Byte>.contains(value: Int): Boolean {\n return value.toByteExactOrNull().let
{ if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value: Int):
Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if

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the specified [value] belongs to this range.

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*\n@Deprecated("This `contains` operation mixing integer and
floating point arguments has ambiguous semantics and is going to be
removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince =
"1.4")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun
ClosedRange<Double>.contains(value: Int): Boolean {\n    return contains(value.toDouble())\n}\n\n**\n * Checks
if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer and
floating point arguments has ambiguous semantics and is going to be
removed.")\n@DeprecatedSinceKotlin(warningSince
= "1.3", errorSince = "1.4")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun
ClosedRange<Float>.contains(value: Int): Boolean {\n    return contains(value.toFloat())\n}\n\n**\n * Checks if the
specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun
ClosedRange<Int>.contains(value: Long): Boolean {\n    return value.toIntExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value:
Long): Boolean {\n    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n**\n *
Checks if the specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("shortRangeContains")\npublic
operator fun ClosedRange<Short>.contains(value: Long): Boolean {\n    return value.toShortExactOrNull().let { if
(it !=
null) contains(it) else false }\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n
*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince =
"1.4")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun
ClosedRange<Double>.contains(value: Long): Boolean {\n    return contains(value.toDouble())\n}\n\n**\n *
Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince =
"1.4")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value:
Long): Boolean {\n    return contains(value.toFloat())\n}\n\n**\n * Checks if the specified [value] belongs to this
range.\n *\n@kotlin.jvm.JvmName("intRangeContains")\npublic
operator fun ClosedRange<Int>.contains(value: Short): Boolean {\n    return contains(value.toInt())\n}\n\n**\n *
Checks if the specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("longRangeContains")\npublic
operator fun ClosedRange<Long>.contains(value: Short): Boolean {\n    return contains(value.toLong())\n}\n\n**\n
* Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value:
Short): Boolean {\n    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n**\n
* Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince =
"1.4")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun
ClosedRange<Double>.contains(value:
Short): Boolean {\n    return contains(value.toDouble())\n}\n\n**\n * Checks if the specified [value] belongs to this
range.\n *\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous
semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince =
"1.4")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value:
Short): Boolean {\n    return contains(value.toFloat())\n}\n\n**\n * Returns a progression from this value down to
the specified [to] value with the step -1.\n * The [to] value should be less than or equal to `this` value.\n * If
the [to] value is greater than `this` value the returned progression is empty.\n *\npublic infix fun Int.downTo(to: Byte):
IntProgression {\n    return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n**\n * Returns a progression

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Long.downTo(to: Short): LongProgression {\n  return LongProgression.fromClosedRange(this, to.toLong(), -
1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n *
The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the
returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Short): IntProgression {\n  return
IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value
down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n
* If the [to] value is greater than `this` value the returned progression is
empty.\n */\npublic infix fun Short.downTo(to: Short): IntProgression {\n  return
IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the
same range in the opposite direction with the same step.\n */\npublic fun IntProgression.reversed(): IntProgression
{\n  return IntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the
same range in the opposite direction with the same step.\n */\npublic fun LongProgression.reversed():
LongProgression {\n  return LongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a
progression that goes over the same range in the opposite direction with the same step.\n */\npublic fun
CharProgression.reversed(): CharProgression {\n  return CharProgression.fromClosedRange(last, first, -
step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun
IntProgression.step(step: Int):
IntProgression {\n  checkStepIsPositive(step > 0, step)\n  return IntProgression.fromClosedRange(first, last, if
(this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given
step.\n */\npublic infix fun LongProgression.step(step: Long): LongProgression {\n  checkStepIsPositive(step > 0,
step)\n  return LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns
a progression that goes over the same range with the given step.\n */\npublic infix fun CharProgression.step(step:
Int): CharProgression {\n  checkStepIsPositive(step > 0, step)\n  return CharProgression.fromClosedRange(first,
last, if (this.step > 0) step else -step)\n}\n\ninternal fun Int.toByteExactOrNull(): Byte? {\n  return if (this in
Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt()) this.toByte() else null\n}\n\ninternal fun
Long.toByteExactOrNull(): Byte? {\n  return if (this in
Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong())
this.toByte() else null\n}\n\ninternal fun Short.toByteExactOrNull(): Byte? {\n  return if (this in
Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByte() else null\n}\n\ninternal fun
Double.toByteExactOrNull(): Byte? {\n  return if (this in
Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toInt().toByte() else null\n}\n\ninternal fun
Float.toByteExactOrNull(): Byte? {\n  return if (this in
Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toInt().toByte() else null\n}\n\ninternal fun
Long.toIntExactOrNull(): Int? {\n  return if (this in Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong())
this.toInt() else null\n}\n\ninternal fun Double.toIntExactOrNull(): Int? {\n  return if (this in
Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null\n}\n\ninternal fun
Float.toIntExactOrNull(): Int? {\n  return if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat())
this.toInt() else null\n}\n\ninternal fun Double.toLongExactOrNull():
Long? {\n  return if (this in Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else
null\n}\n\ninternal fun Float.toLongExactOrNull(): Long? {\n  return if (this in
Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null\n}\n\ninternal fun
Int.toShortExactOrNull(): Short? {\n  return if (this in Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt())
this.toShort() else null\n}\n\ninternal fun Long.toShortExactOrNull(): Short? {\n  return if (this in
Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null\n}\n\ninternal fun
Double.toShortExactOrNull(): Short? {\n  return if (this in
Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toInt().toShort() else null\n}\n\ninternal fun
Float.toShortExactOrNull(): Short? {\n  return if (this in
Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat()) this.toInt().toShort() else null\n}\n\n/**\n * Returns

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*/\npublic infix fun Short.until(to: Short): IntRange {\n    return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\n\npublic fun <T : Comparable<T>> T.coerceAtLeast(minimumValue: T): T {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\n\npublic fun Byte.coerceAtLeast(minimumValue: Byte): Byte {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\n\npublic fun Short.coerceAtLeast(minimumValue: Short): Short {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\n\npublic fun Int.coerceAtLeast(minimumValue: Int): Int {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\n\npublic fun Long.coerceAtLeast(minimumValue: Long): Long {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\n\npublic fun Float.coerceAtLeast(minimumValue: Float): Float {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\n\npublic fun Double.coerceAtLeast(minimumValue: Double): Double {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\n\npublic fun <T : Comparable<T>> T.coerceAtMost(maximumValue: T): T {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\n\npublic fun Byte.coerceAtMost(maximumValue: Byte): Byte {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\n\npublic fun Short.coerceAtMost(maximumValue: Short): Short {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\n\npublic fun Int.coerceAtMost(maximumValue: Int): Int {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\n\npublic fun Long.coerceAtMost(maximumValue: Long): Long {\n    return if

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    (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the
    specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the
    [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n *\npublic
    fun Float.coerceAtMost(maximumValue: Float): Float {\n    return if (this > maximumValue) maximumValue else
    this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
    value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
    samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Double.coerceAtMost(maximumValue:
    Double): Double {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this
    value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range,
    or [minimumValue] if this value
    is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
    samples.comparisons.ComparableOps.coerceInComparable\n *\npublic fun <T : Comparable<T>>
    T.coerceIn(minimumValue: T?, maximumValue: T?): T {\n    if (minimumValue !== null && maximumValue !==
    null) {\n        if (minimumValue > maximumValue) throw IllegalArgumentException("\n        if (this <
    minimumValue) return minimumValue\n        if (this > maximumValue) return maximumValue\n    }\n    else {\n
    if (minimumValue !== null && this < minimumValue) return minimumValue\n        if (maximumValue !== null
    && this > maximumValue) return maximumValue\n    }\n    return this\n}\n\n/**\n * Ensures that this value lies in
    the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or
    [minimumValue] if this value is less than [minimumValue],
    or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
    samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Byte.coerceIn(minimumValue: Byte,
    maximumValue: Byte): Byte {\n    if (minimumValue > maximumValue) throw
    IllegalArgumentException("\n        if (this < minimumValue) return minimumValue\n        if (this > maximumValue)
    return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
    [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
    is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
    samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Short.coerceIn(minimumValue: Short,
    maximumValue: Short): Short {\n    if (minimumValue > maximumValue) throw
    IllegalArgumentException("\n        if (this < minimumValue) return minimumValue\n        if (this > maximumValue)
    return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
    [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
    is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
    samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Int.coerceIn(minimumValue: Int, maximumValue:
    Int): Int {\n    if (minimumValue > maximumValue) throw IllegalArgumentException("\n        if (this < minimumValue)
    return minimumValue\n        if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures
    that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n *
    \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
    [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
    samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Long.coerceIn(minimumValue: Long,
    maximumValue: Long): Long {\n    if (minimumValue > maximumValue) throw
    IllegalArgumentException("\n        if (this < minimumValue) return minimumValue\n        if (this > maximumValue)
    return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
  
```



```

constructor(@PublishedApi internal val data: Byte) : Comparable<UByte> {\n\n companion object {\n\n /**\n\n * A constant holding the minimum value an instance of UByte can have.\n\n */\n\n public const val\n
MIN_VALUE: UByte = UByte(0)\n\n /**\n\n * A constant holding the maximum value\n
an instance of UByte can have.\n\n */\n\n public const val MAX_VALUE: UByte = UByte(-1)\n\n /**\n\n * The number of bytes used to represent an instance of UByte in a binary form.\n\n */\n\n public const val\n
SIZE_BYTES: Int = 1\n\n /**\n\n * The number of bits used to represent an instance of UByte in a binary\n
form.\n\n */\n\n public const val SIZE_BITS: Int = 8\n\n }\n\n /**\n\n * Compares this value with the\n
specified value for order.\n\n * Returns zero if this value is equal to the specified other value, a negative number if\n
it's less than other,\n\n * or a positive number if it's greater than other.\n\n */\n\n @kotlin.internal.InlineOnly\n
@Suppress("OVERRIDE_BY_INLINE")\n\n public override inline operator fun compareTo(other: UByte): Int =\n
this.toInt().compareTo(other.toInt())\n\n /**\n\n * Compares this value with the specified value for order.\n\n * Returns zero if this value is equal to the\n
specified other value, a negative number if it's less than other,\n\n * or a positive number if it's greater than other.\n\n */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun compareTo(other: UShort): Int =\n
this.toInt().compareTo(other.toInt())\n\n /**\n\n * Compares this value with the specified value for order.\n\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n\n * or a\n
positive number if it's greater than other.\n\n */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun\n
compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n\n /**\n\n * Compares this value with the\n
specified value for order.\n\n * Returns zero if this value is equal to the specified other value, a negative number if\n
it's less than other,\n\n * or a positive number if it's greater than other.\n\n */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun compareTo(other: ULong):\n
Int = this.toULong().compareTo(other)\n\n /** Adds the other value to this value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun plus(other: UByte): UInt =\n
this.toUInt().plus(other.toUInt())\n\n /** Adds the other value to this value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n\n /** Adds the other value\n
to this value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun plus(other: UInt): UInt =\n
this.toUInt().plus(other)\n\n /** Adds the other value to this value. */\n\n @kotlin.internal.InlineOnly\n\n public\n
inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n /** Subtracts the other value from\n
this value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun minus(other: UByte): UInt =\n
this.toUInt().minus(other.toUInt())\n\n /** Subtracts the other value from this value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())\n\n /** Subtracts the\n
other value from this value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun minus(other: UInt):\n
UInt = this.toUInt().minus(other)\n\n /** Subtracts the other value from this value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun minus(other: ULong): ULong =\n
this.toULong().minus(other)\n\n /** Multiplies this value by the other value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())\n\n /** Multiplies this\n
value by the other value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun times(other: UShort): UInt\n
= this.toUInt().times(other.toUInt())\n\n /** Multiplies this value by the other value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n\n /** Multiplies\n
this value by the other value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun times(other: ULong):\n
ULong = this.toULong().times(other)\n\n /** Divides this value by the other value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun div(other: UByte): UInt =\n
this.toUInt().div(other.toUInt())\n\n /** Divides this value by the other value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n\n /** Divides this value by\n
the other value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun div(other: UInt): UInt =\n
this.toUInt().div(other)\n\n /** Divides this value by the other value. */\n\n @kotlin.internal.InlineOnly\n\n public

```

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inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n /** Calculates the remainder of
dividing this value by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun
rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())\n /** Calculates the remainder of dividing this value
by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt =
this.toUInt().rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n /**
Calculates the remainder of dividing this value by the other value. *\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /** Increments this value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun inc(): UByte = UByte(data.inc())\n /** Decrements this
value. *\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): UByte = UByte(data.dec())\n\n /**
Creates a range from this value to the specified [other] value.
*\n @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UByte): UIntRange =
UIntRange(this.toUInt(), other.toUInt())\n\n /** Performs a bitwise AND operation between the two values. *\n
@kotlin.internal.InlineOnly\n public inline infix fun and(other: UByte): UByte = UByte(this.data and other.data)\n\n
/** Performs a bitwise OR operation between the two values. *\n @kotlin.internal.InlineOnly\n public inline
infix fun or(other: UByte): UByte = UByte(this.data or other.data)\n\n /** Performs a bitwise XOR operation
between the two values. *\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: UByte): UByte =
UByte(this.data xor other.data)\n\n /** Inverts the bits in this value. *\n @kotlin.internal.InlineOnly\n public
inline fun inv(): UByte = UByte(data.inv())\n\n /***\n * Converts this [UByte] value to [Byte].\n *\n * If
this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte`
value represents\n * the same numerical value as this `UByte`. Otherwise the result is negative.\n *\n * The
resulting `Byte` value has the same binary representation as this `UByte` value.\n *\n
@kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data\n /***\n * Converts this [UByte] value to
[Short].\n *\n * The resulting `Short` value represents the same numerical value as this `UByte`.\n *\n *
The least significant 8 bits of the resulting `Short` value are the same as the bits of this `UByte` value,\n *
whereas the most significant 8 bits are filled with zeros.\n *\n @kotlin.internal.InlineOnly\n public inline fun
toShort(): Short = data.toShort() and 0xFF\n /***\n * Converts this [UByte] value to [Int].\n *\n * The
resulting `Int` value represents the same numerical value as this `UByte`.\n *\n * The least significant 8 bits of
the resulting `Int` value are the same as the bits of this
`UByte` value,\n * whereas the most significant 24 bits are filled with zeros.\n *\n
@kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data.toInt() and 0xFF\n /***\n * Converts this
[UByte] value to [Long].\n *\n * The resulting `Long` value represents the same numerical value as this
`UByte`.\n *\n * The least significant 8 bits of the resulting `Long` value are the same as the bits of this
`UByte` value,\n * whereas the most significant 56 bits are filled with zeros.\n *\n
@kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and 0xFF\n\n /*** Returns this
value. *\n @kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = this\n /***\n * Converts this
[UByte] value to [UShort].\n *\n * The resulting `UShort` value represents the same numerical value as this
`UByte`.\n *\n * The least significant 8 bits of the resulting `UShort` value are the same as the
bits of this `UByte` value,\n * whereas the most significant 8 bits are filled with zeros.\n *\n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = UShort(data.toShort() and 0xFF)\n /***\n
* Converts this [UByte] value to [UInt].\n *\n * The resulting `UInt` value represents the same numerical value
as this `UByte`.\n *\n * The least significant 8 bits of the resulting `UInt` value are the same as the bits of
this `UByte` value,\n * whereas the most significant 24 bits are filled with zeros.\n *\n
@kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFF)\n /***\n *
Converts this [UByte] value to [ULong].\n *\n * The resulting `ULong` value represents the same numerical
value as this `UByte`.\n *\n * The least significant 8 bits of the resulting `ULong` value are the same as the bits
of this `UByte` value,\n * whereas the most significant 56 bits are filled

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with zeros.\n *^n @kotlin.internal.InlineOnly\n public inline fun toULong(): ULong = ULong(data.toLong()
and 0xFF)\n\n /**\n * Converts this [UByte] value to [Float].\n *^n * The resulting `Float` value represents
the same numerical value as this `UByte`.\n *^n @kotlin.internal.InlineOnly\n public inline fun toFloat():
Float = this.toInt().toFloat()\n\n /**\n * Converts this [UByte] value to [Double].\n *^n * The resulting
`Double` value represents the same numerical value as this `UByte`.\n *^n @kotlin.internal.InlineOnly\n
public inline fun toDouble(): Double = this.toInt().toDouble()\n\n public override fun toString(): String =
toInt().toString()\n\n}\n\n**\n * Converts this [Byte] value to [UByte].\n *^n * If this value is positive, the resulting
`UByte` value represents the same numerical value as this `Byte`.\n *^n * The resulting `UByte` value has the same
binary representation as this `Byte` value.\n
*^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun Byte.toUByte(): UByte = UByte(this)\n\n**\n * Converts this [Short] value to [UByte].\n *^n * If this
value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the
same numerical value as this `Short`.\n *^n * The resulting `UByte` value is represented by the least significant 8
bits of this `Short` value.\n
*^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Short.toUByte(): UByte = UByte(this.toByte())\n\n**\n * Converts this [Int] value to [UByte].\n *^n * If this value
is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same
numerical value as this `Int`.\n *^n * The resulting `UByte` value is represented by the least significant 8 bits of this
`Int` value.\n *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun Int.toUByte(): UByte = UByte(this.toByte())\n\n**\n * Converts this [Long] value to [UByte].\n *^n * If
this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n *
the same numerical value as this `Long`.\n *^n * The resulting `UByte` value is represented by the least significant 8
bits of this `Long` value.\n
*^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Long.toUByte(): UByte = UByte(this.toByte())\n\n",/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *^n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.experimental.*\n\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@
SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class UInt @PublishedApi internal
constructor(@PublishedApi
internal val data: Int) : Comparable<UInt> {\n\n companion object {\n\n /**\n * A constant holding the
minimum value an instance of UInt can have.\n *^n public const val MIN_VALUE: UInt = UInt(0)\n\n
/**\n * A constant holding the maximum value an instance of UInt can have.\n *^n public const val
MAX_VALUE: UInt = UInt(-1)\n\n /**\n * The number of bytes used to represent an instance of UInt in a
binary form.\n *^n public const val SIZE_BYTES: Int = 4\n\n /**\n * The number of bits used to
represent an instance of UInt in a binary form.\n *^n public const val SIZE_BITS: Int = 32\n } \n\n
/**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the
specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n
*^n
*^n@kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UByte): Int =
this.compareTo(other.toUInt())\n\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n *^n @kotlin.internal.InlineOnly\n public inline operator fun
compareTo(other: UShort): Int = this.compareTo(other.toUInt())\n\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n *^n @kotlin.internal.InlineOnly\n
@Suppress("OVERRIDE_BY_INLINE")\n public override inline operator fun compareTo(other: UInt): Int =
uintCompare(this.data, other.data)\n\n /**\n * Compares this value with the specified

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value for order.\n    * Returns zero if this value is equal to the specified other value, a negative number if it's less
than other.\n    * or a positive number if it's greater than other.\n    *^@kotlin.internal.InlineOnly\n    public
inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n    /** Adds the other
value to this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UByte): UInt =
this.plus(other.toUInt())\n    /** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n    public
inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())\n    /** Adds the other value to this value.
*/\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UInt): UInt =
UInt(this.data.plus(other.data))\n    /** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n    /** Subtracts the other value from this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
minus(other: UByte): UInt = this.minus(other.toUInt())\n    /** Subtracts the other value from this value. */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UShort): UInt = this.minus(other.toUInt())\n
    /** Subtracts the other value from this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
minus(other: UInt): UInt = UInt(this.data.minus(other.data))\n    /** Subtracts the other value from this value. */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: ULong): ULong =
this.toULong().minus(other)\n\n    /** Multiplies this value by the other value. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())\n    /** Multiplies this value by the
other value. */\n    @kotlin.internal.InlineOnly\n    public inline
operator fun times(other: UShort): UInt = this.times(other.toUInt())\n    /** Multiplies this value by the other value.
*/\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UInt): UInt =
UInt(this.data.times(other.data))\n    /** Multiplies this value by the other value. */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: ULong): ULong =
this.toULong().times(other)\n\n    /** Divides this value by the other value. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UByte): UInt = this.div(other.toUInt())\n    /** Divides this value by the other
value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UShort): UInt =
this.div(other.toUInt())\n    /** Divides this value by the other value. */\n    @kotlin.internal.InlineOnly\n    public
inline operator fun div(other: UInt): UInt = uintDivide(this, other)\n    /** Divides this value by the other value. */\n
    @kotlin.internal.InlineOnly\n
    public inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n    /** Calculates the
remainder of dividing this value by the other value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
rem(other: UByte): UInt = this.rem(other.toUInt())\n    /** Calculates the remainder of dividing this value by the
other value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun rem(other: UShort): UInt =
this.rem(other.toUInt())\n    /** Calculates the remainder of dividing this value by the other value. */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun rem(other: UInt): UInt = uintRemainder(this, other)\n
    /** Calculates the remainder of dividing this value by the other value. */\n    @kotlin.internal.InlineOnly\n    public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n    /** Increments this value. */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun inc(): UInt
= UInt(data.inc())\n    /** Decrements this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
dec(): UInt = UInt(data.dec())\n\n    /** Creates a range from this value to the specified [other] value. */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun rangeTo(other: UInt): UIntRange = UIntRange(this,
other)\n\n    /** Shifts this value left by the [bitCount] number of bits. */\n    @kotlin.internal.InlineOnly\n    public
inline infix fun shl(bitCount: Int): UInt = UInt(data shl bitCount)\n    /** Shifts this value right by the [bitCount]
number of bits, filling the leftmost bits with zeros. */\n    @kotlin.internal.InlineOnly\n    public inline infix fun
shr(bitCount: Int): UInt = UInt(data ushr bitCount)\n\n    /** Performs a bitwise AND operation between the two
values. */\n    @kotlin.internal.InlineOnly\n    public inline infix fun and(other: UInt): UInt = UInt(this.data and
other.data)\n\n    /** Performs a bitwise OR operation between the two
values. */\n    @kotlin.internal.InlineOnly\n    public inline infix fun or(other: UInt): UInt = UInt(this.data or
other.data)\n\n    /** Performs a bitwise XOR operation between the two values. */\n    @kotlin.internal.InlineOnly\n

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public inline infix fun xor(other: UInt): UInt = UInt(this.data xor other.data)\n /** Inverts the bits in this value.
*\n @kotlin.internal.InlineOnly\n public inline fun inv(): UInt = UInt(data.inv())\n\n /**\n * Converts this
[UInt] value to [Byte].\n *\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte`
value represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `Byte` value is
represented by the least significant 8 bits of this `UInt` value.\n * Note that the resulting `Byte` value may be
negative.\n *\n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data.toByte()\n\n /**\n *
Converts this [UInt] value to [Short].\n *\n
* If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n * the
same numerical value as this `UInt`.\n *\n * The resulting `Short` value is represented by the least significant
16 bits of this `UInt` value.\n * Note that the resulting `Short` value may be negative.\n *\n
@kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data.toShort()\n\n /**\n * Converts this [UInt]
value to [Int].\n *\n * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value
represents\n * the same numerical value as this `UInt`. Otherwise the result is negative.\n *\n * The resulting
`Int` value has the same binary representation as this `UInt` value.\n *\n @kotlin.internal.InlineOnly\n public
inline fun toInt(): Int = data\n\n /**\n * Converts this [UInt] value to [Long].\n *\n * The resulting `Long`
value represents the same numerical value as this
`UInt`.\n *\n * The least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt`
value,\n * whereas the most significant 32 bits are filled with zeros.\n *\n @kotlin.internal.InlineOnly\n
public inline fun toLong(): Long = data.toLong() and 0xFFFF_FFFF\n\n /**\n * Converts this [UInt] value to
[UByte].\n *\n * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value
represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `UByte` value is represented by
the least significant 8 bits of this `UInt` value.\n *\n @kotlin.internal.InlineOnly\n public inline fun
toUByte(): UByte = data.toUByte()\n\n /**\n * Converts this [UInt] value to [UShort].\n *\n * If this value is
less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same numerical
value as this `UInt`.\n *\n * The resulting `UShort`
value is represented by the least significant 16 bits of this `UInt` value.\n *\n @kotlin.internal.InlineOnly\n
public inline fun toUShort(): UShort = data.toUShort()\n\n /** Returns this value. *\n
@kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = this\n\n /**\n * Converts this [UInt] value to
[ULong].\n *\n * The resulting `ULong` value represents the same numerical value as this `UInt`.\n *\n *
The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value,\n *
whereas the most significant 32 bits are filled with zeros.\n *\n @kotlin.internal.InlineOnly\n public inline
fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF)\n\n /**\n * Converts this [UInt] value to
[Float].\n *\n * The resulting value is the closest `Float` to this `UInt` value.\n * In case when this `UInt`
value is exactly between two `Float`s,\n * the one with zero at least
significant bit of mantissa is selected.\n *\n @kotlin.internal.InlineOnly\n public inline fun toFloat(): Float =
this.toDouble().toFloat()\n\n /**\n * Converts this [UInt] value to [Double].\n *\n * The resulting `Double`
value represents the same numerical value as this `UInt`.\n *\n @kotlin.internal.InlineOnly\n public inline
fun toDouble(): Double = uintToDouble(data)\n\n public override fun toString(): String =
toLong().toString()\n\n}\n\n/**\n * Converts this [Byte] value to [UInt].\n *\n * If this value is positive, the resulting
`UInt` value represents the same numerical value as this `Byte`.\n *\n * The least significant 8 bits of the resulting
`UInt` value are the same as the bits of this `Byte` value,\n * whereas the most significant 24 bits are filled with the
sign bit of this value.\n
*\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Byte.toUInt(): UInt = UInt(this.toInt())\n\n /**\n * Converts this [Short] value to [UInt].\n *\n * If this value is positive, the resulting `UInt` value represents the
same numerical value as this `Short`.\n *\n * The least significant 16 bits of the resulting `UInt` value are the same
as the bits of this `Short` value,\n * whereas the most significant 16 bits are filled with the sign bit of this value.\n
*\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun

```



```

this.toUInt().plus(other)\n /** Adds the other value to this value. *\n @kotlin.internal.InlineOnly\n public
inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n /** Subtracts the other value from
this value. *\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): UInt =
this.toUInt().minus(other.toUInt())\n\n /** Subtracts the other value from this value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort): UInt =
this.toUInt().minus(other.toUInt())\n\n /** Subtracts the other value from this value. *\n @kotlin.internal.InlineOnly\n public inline operator fun
minus(other: UInt): UInt = this.toUInt().minus(other)\n\n /** Subtracts the other value from this value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: ULong): ULong =
this.toULong().minus(other)\n\n /** Multiplies this value by the other value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())\n\n /** Multiplies this
value by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt
= this.toUInt().times(other.toUInt())\n\n /** Multiplies this value by the other value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n\n
/** Multiplies this value by the other value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value
by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): UInt =
this.toUInt().div(other.toUInt())\n\n /** Divides this value by the other value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n\n /** Divides this value by
the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt =
this.toUInt().div(other)\n\n /** Divides this value by the other value. *\n @kotlin.internal.InlineOnly\n public
inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n /** Calculates the remainder of
dividing this value by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other:
UByte): UInt = this.toUInt().rem(other.toUInt())\n\n /** Calculates
the remainder of dividing this value by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator
fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\n\n /** Calculates the remainder of dividing this
value by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt =
this.toUInt().rem(other)\n\n /** Calculates the remainder of dividing this value by the other value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)\n\n /** Increments this value. *\n @kotlin.internal.InlineOnly\n public inline
operator fun inc(): UShort = UShort(data.inc())\n\n /** Decrements this value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun dec(): UShort = UShort(data.dec())\n\n /** Creates a range from this value to the
specified [other] value. *\n @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other:
UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n\n /** Performs a bitwise AND operation
between the two values. *\n @kotlin.internal.InlineOnly\n public inline infix fun and(other: UShort): UShort =
UShort(this.data and other.data)\n\n /** Performs a bitwise OR operation between the two values. *\n
@kotlin.internal.InlineOnly\n public inline infix fun or(other: UShort): UShort = UShort(this.data or other.data)\n\n
/** Performs a bitwise XOR operation between the two values. *\n @kotlin.internal.InlineOnly\n public inline
infix fun xor(other: UShort): UShort = UShort(this.data xor other.data)\n\n /** Inverts the bits in this value. *\n
@kotlin.internal.InlineOnly\n public inline fun inv(): UShort = UShort(data.inv())\n\n /**\n * Converts this
[UShort] value to [Byte].\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting
`Byte` value represents\n * the same numerical value as this `UShort`.\n\n * The resulting `Byte` value is represented by the least significant 8 bits of this `UShort` value.\n * Note
that the resulting `Byte` value may be negative.\n *\n @kotlin.internal.InlineOnly\n public inline fun
toByte(): Byte = data.toByte()\n\n /**\n * Converts this [UShort] value to [Short].\n * If this value is less
than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n * the same numerical value as
this `UShort`. Otherwise the result is negative.\n *\n * The resulting `Short` value has the same binary
representation as this `UShort` value.\n *\n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short =

```

```

data\n /**\n * Converts this [UShort] value to [Int].\n *\n * The resulting `Int` value represents the same
numerical value as this `UShort`.\n *\n * The least significant 16 bits of the resulting `Int` value are the same as
the bits of this `UShort` value,\n
* whereas the most significant 16 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public
inline fun toInt(): Int = data.toInt() and 0xFFFF\n /**\n * Converts this [UShort] value to [Long].\n *\n *
The resulting `Long` value represents the same numerical value as this `UShort`.\n *\n * The least significant
16 bits of the resulting `Long` value are the same as the bits of this `UShort` value,\n * whereas the most
significant 48 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toLong(): Long
= data.toLong() and 0xFFFF\n\n /**\n * Converts this [UShort] value to [UByte].\n *\n * If this value is
less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical
value as this `UShort`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this
`UShort` value.\n */\n @kotlin.internal.InlineOnly\n
public inline fun toUByte(): UByte = data.toUByte()\n /** Returns this value. */\n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = this\n /**\n * Converts this [UShort]
value to [UInt].\n *\n * The resulting `UInt` value represents the same numerical value as this `UShort`.\n
*\n * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `UShort` value,\n
* whereas the most significant 16 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline
fun toUInt(): UInt = UInt(data.toInt() and 0xFFFF)\n /**\n * Converts this [UShort] value to [ULong].\n *\n
* The resulting `ULong` value represents the same numerical value as this `UShort`.\n *\n * The least
significant 16 bits of the resulting `ULong` value are the same as the bits of this `UShort` value,\n * whereas the
most significant 48 bits are filled with zeros.\n
*/\n @kotlin.internal.InlineOnly\n public inline fun toULong(): ULong = ULong(data.toLong() and
0xFFFF)\n\n /**\n * Converts this [UShort] value to [Float].\n *\n * The resulting `Float` value represents
the same numerical value as this `UShort`.\n */\n @kotlin.internal.InlineOnly\n public inline fun toFloat():
Float = this.toInt().toFloat()\n /**\n * Converts this [UShort] value to [Double].\n *\n * The resulting
`Double` value represents the same numerical value as this `UShort`.\n */\n @kotlin.internal.InlineOnly\n
public inline fun toDouble(): Double = this.toInt().toDouble()\n\n public override fun toString(): String =
toInt().toString()\n}\n\n/**\n * Converts this [Byte] value to [UShort].\n *\n * If this value is positive, the
resulting `UShort` value represents the same numerical value as this `Byte`.\n *\n * The least significant 8 bits of the
resulting `UShort` value are the same as the bits of this `Byte` value,\n
* whereas the most significant 8 bits are filled with the sign bit of this value.\n
*/\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Byte.toUShort(): UShort = UShort(this.toShort())\n\n /**\n * Converts this [Short] value to [UShort].\n *\n * If this
value is positive, the resulting `UShort` value represents the same numerical value as this `Short`.\n *\n * The
resulting `UShort` value has the same binary representation as this `Short` value.\n
*/\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Short.toUShort(): UShort = UShort(this)\n\n /**\n * Converts this [Int] value to [UShort].\n *\n * If this value is
positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same
numerical value as this `Int`.\n *\n * The resulting `UShort` value is represented by the least significant 16 bits of
this `Int` value.\n */\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public
inline fun Int.toUShort(): UShort = UShort(this.toShort())\n\n /**\n * Converts this [Long] value to [UShort].\n *\n
* If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n
* the same numerical value as this `Long`.\n *\n * The resulting `UShort` value is represented by the least
significant 16 bits of this `Long` value.\n
*/\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Long.toUShort(): UShort = UShort(this.toShort())\n", "\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage

```

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kotlin.ranges\n\n/**\n * A range of values of type `Char`.\n */\npublic class CharRange(start: Char, endInclusive: Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {\n    override val start: Char get() = first\n    override val endInclusive: Char get() = last\n\n    override fun contains(value: Char): Boolean = first <= value && value <= last\n\n    override fun isEmpty(): Boolean = first > last\n\n    override fun equals(other: Any?): Boolean =\n        other is CharRange && (isEmpty() && other.isEmpty()) ||\n        first == other.first && last == other.last)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\n\n    override fun toString(): String = \"$first..$last\"\n\n    companion object {\n        /** An empty range of values of type Char. */\n        public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())\n    }\n}\n\n/**\n * A range of values of type `Int`.\n */\npublic class IntRange(start: Int, endInclusive: Int) : IntProgression(start, endInclusive, 1), ClosedRange<Int> {\n    override val start: Int get() = first\n    override val endInclusive: Int get() = last\n\n    override fun contains(value: Int): Boolean = first <= value && value <= last\n\n    override fun isEmpty(): Boolean = first > last\n\n    override fun equals(other: Any?): Boolean =\n        other is IntRange && (isEmpty() && other.isEmpty()) ||\n        first == other.first && last == other.last)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * first + last)\n\n    override fun toString(): String = \"$first..$last\"\n\n    companion object {\n        /** An empty range of values of type Int. */\n        public val EMPTY: IntRange = IntRange(1, 0)\n    }\n}\n\n/**\n * A range of values of type `Long`.\n */\npublic class LongRange(start: Long, endInclusive: Long) : LongProgression(start, endInclusive, 1), ClosedRange<Long> {\n    override val start: Long get() = first\n    override val endInclusive: Long get() = last\n\n    override fun contains(value: Long): Boolean = first <= value && value <= last\n\n    override fun isEmpty(): Boolean = first > last\n\n    override fun equals(other: Any?): Boolean =\n        other is LongRange && (isEmpty() && other.isEmpty()) ||\n        first == other.first && last == other.last)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))).toInt()\n\n    override fun toString(): String = \"$first..$last\"\n\n    companion object {\n        /** An empty range of values of type Long. */\n        public val EMPTY: LongRange = LongRange(1, 0)\n    }\n}\n\n/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\nimport kotlin.random.Random\n\ninternal\n\nobject EmptyIterator : ListIterator<Nothing> {\n    override fun hasNext(): Boolean = false\n    override fun hasPrevious(): Boolean = false\n    override fun nextIndex(): Int = 0\n    override fun previousIndex(): Int = -1\n    override fun next(): Nothing = throw NoSuchElementException()\n    override fun previous(): Nothing = throw NoSuchElementException()\n}\n\ninternal object EmptyList : List<Nothing>, Serializable, RandomAccess {\n    private const val serialVersionUID: Long = -7390468764508069838L\n\n    override fun equals(other: Any?): Boolean = other is List<*> && other.isEmpty()\n    override fun hashCode(): Int = 1\n    override fun toString(): String = "[]"\n\n    override val size: Int get() = 0\n    override fun isEmpty(): Boolean = true\n    override fun contains(element: Nothing): Boolean = false\n    override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()\n\n    override fun get(index: Int): Nothing = throw IndexOutOfBoundsException("Empty list doesn't contain element at index $index.")\n    override fun indexOf(element: Nothing): Int = -1\n    override fun lastIndexOf(element: Nothing): Int = -1\n    override fun iterator(): Iterator<Nothing> = EmptyIterator\n    override fun listIterator(): ListIterator<Nothing> = EmptyIterator\n    override fun listIterator(index: Int): ListIterator<Nothing> {\n        if (index != 0) throw IndexOutOfBoundsException("Index: $index")\n        return EmptyIterator\n    }\n\n    override fun subList(fromIndex: Int, toIndex: Int): List<Nothing> {\n        if (fromIndex == 0 && toIndex == 0) return this\n        throw IndexOutOfBoundsException("fromIndex: $fromIndex, toIndex: $toIndex")\n    }\n\n    private fun readResolve(): Any = EmptyList\n}\n\ninternal fun <T> Array<out T>.asCollection(): Collection<T> = ArrayAsCollection(this, isVarargs = false)\n\nprivate class ArrayAsCollection<T>(val values: Array<out T>, val isVarargs: Boolean) : Collection<T> {\n    override val

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size: Int get() = values.size\n  override fun isEmpty(): Boolean = values.isEmpty()\n  override fun
contains(element: T): Boolean = values.contains(element)\n  override fun containsAll(elements: Collection<T>):
Boolean = elements.all { contains(it) }\n  override fun iterator(): Iterator<T> = values.iterator()\n  // override
hidden toArray implementation to prevent copying of values array\n  public fun toArray(): Array<out Any?> =
values.copyToArrayOfAny(isVarargs)\n}\n\n/**\n * Returns an empty read-only list. The returned list is
serializable (JVM).\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\n */\npublic fun <T>
emptyList(): List<T> = EmptyList\n\n/**\n * Returns a new read-only list of given elements. The returned list is
serializable (JVM).\n * @sample samples.collections.Collections.Lists.readOnlyList\n */\npublic fun <T>
listOf(vararg elements: T): List<T> = if (elements.size > 0) elements.asList() else emptyList()\n\n/**\n * Returns an empty
read-only list. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.emptyReadOnlyList\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T>
listOf(): List<T> = emptyList()\n\n/**\n * Returns an empty new [MutableList].\n * @sample
samples.collections.Collections.Lists.emptyMutableList\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableListOf(): MutableList<T> =
ArrayList()\n\n/**\n * Returns an empty new [ArrayList].\n * @sample
samples.collections.Collections.Lists.emptyArrayList\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> arrayListOf(): ArrayList<T> =
ArrayList()\n\n/**\n * Returns a new [MutableList] with the given elements.\n * @sample
samples.collections.Collections.Lists.mutableList\n */\npublic fun <T> mutableListOf(vararg elements: T):
MutableList<T> =\n    if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs =
true))\n\n/**\n * Returns a new [ArrayList] with the given elements.\n * @sample samples.collections.Collections.Lists.arrayList\n
*/\npublic fun <T> arrayListOf(vararg elements: T): ArrayList<T> =\n    if (elements.size == 0) ArrayList() else
ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n/**\n * Returns a new read-only list either of single
given element, if it is not null, or empty list if the element is null. The returned list is serializable (JVM).\n *
@sample samples.collections.Collections.Lists.listOfNotNull\n */\npublic fun <T : Any> listOfNotNull(element:
T?): List<T> = if (element != null) listOf(element) else emptyList()\n\n/**\n * Returns a new read-only list only of
those given elements, that are not null. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.listOfNotNull\n */\npublic fun <T : Any> listOfNotNull(vararg elements: T?):
List<T> = elements.filterNotNull()\n\n/**\n * Creates a new read-only list with the specified [size], where
each element is calculated by calling the specified\n * [init] function.\n * The function [init] is called for each
list element sequentially starting from the first one.\n * It should return the value for a list element given its index.\n
*\n * @sample samples.collections.Collections.Lists.readOnlyListFromInitializer\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> List(size: Int, init: (index: Int) -> T):
List<T> = MutableList(size, init)\n\n/**\n * Creates a new mutable list with the specified [size], where each element
is calculated by calling the specified\n * [init] function.\n * The function [init] is called for each list element
sequentially starting from the first one.\n * It should return the value for a list element given its index.\n *\n *
@sample samples.collections.Collections.Lists.mutableListFromInitializer\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> MutableList(size: Int, init: (index:
Int)
-> T): MutableList<T> {\n    val list = ArrayList<T>(size)\n    repeat(size) { index -> list.add(init(index)) }\n
return list}\n\n/**\n * Builds a new read-only [List] by populating a [MutableList] using the given
[builderAction]\n * and returning a read-only list with the same elements.\n * The list passed as a receiver to the
[builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified
behavior.\n * \n * @sample samples.collections.Builders.Lists.buildListSample\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E>
buildList(@BuilderInference builderAction: MutableList<E>.() -> Unit): List<E> {\n    contract {

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callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n  return
buildListInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin
n.internal.InlineOnly\n\ninternal expect inline fun <E> buildListInternal(builderAction: MutableList<E>.)
-> Unit): List<E>\n\n/**\n * Builds a new read-only [List] by populating a [MutableList] using the given
[builderAction]\n * and returning a read-only list with the same elements.\n *\n * The list passed as a receiver to the
[builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified
behavior.\n *\n * [capacity] is used to hint the expected number of elements added in the [builderAction].\n *\n *
@throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample
samples.collections.Builders.Lists.buildListSampleWithCapacity\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun <E>
buildList(capacity: Int, @BuilderInference builderAction: MutableList<E>.) -> Unit): List<E> {\n  contract {
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n  return buildListInternal(capacity,
builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineO
nly\n\ninternal
expect inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>.) -> Unit): List<E>\n\n/**\n *
Returns an [IntRange] of the valid indices for this collection.\n *\n * @sample
samples.collections.Collections.Collections.indicesOfCollection\n
*\n\npublic val Collection<*>.indices: IntRange\n
get() = 0..size - 1\n\n/**\n * Returns the index of the last item in the list or -1 if the list is empty.\n *\n *
@sample
samples.collections.Collections.Lists.lastIndexOfList\n
*\n\npublic val <T> List<T>.lastIndex: Int\n  get() =
this.size - 1\n\n/**\n * Returns `true` if the collection is not empty.\n *\n * @sample
samples.collections.Collections.Collections.collectionIsNotEmpty\n
*\n\n@kotlin.internal.InlineOnly\n\npublic inline
fun <T> Collection<T>.isNotEmpty(): Boolean = !isEmpty()\n\n/**\n * Returns `true` if this nullable collection is
either null or empty.\n *\n * @sample
samples.collections.Collections.Collections.collectionIsNullOrEmpty\n
*\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> Collection<T>?.isNullOrEmpty():
Boolean {\n  contract {\n    returns(false) implies (this@isNullOrEmpty != null)\n  }\n\n  return this == null ||
this.isEmpty()\n}\n\n/**\n * Returns this Collection if it's not `null` and the empty list otherwise.\n *\n *
@sample
samples.collections.Collections.Collections.collectionOrElse\n
*\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
<T> Collection<T>?.orElse(): Collection<T> = this ?: emptyList()\n\n/**\n * Returns this List if it's not `null` and
the empty list otherwise.\n *\n * @sample
samples.collections.Collections.Lists.listOrElse\n
*\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> List<T>?.orElse(): List<T> = this ?: emptyList()\n\n/**\n *
Returns this collection if it's not empty\n * or the result of calling [defaultValue] function if the collection is
empty.\n *\n * @sample
samples.collections.Collections.Collections.collectionIfEmpty\n
*\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n\npublic inline fun <C, R> C.ifEmpty(defaultValue: () ->
R): R where C : Collection<*>, C : R =\n  if (isEmpty()) defaultValue() else this\n\n\n/**\n * Checks if all
elements in the specified collection are contained in this collection.\n *\n * Allows to overcome type-safety
restriction of `containsAll` that requires to pass a collection of type `Collection<E>`.\n *\n * @sample
samples.collections.Collections.Collections.collectionContainsAll\n
*\n\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases\n@kotlin.internal.InlineOnly\n\npublic inline fun <@kotlin.internal.OnlyInputTypes T>
Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)\n\n\n/**\n * Returns a
new list with the elements of this list randomly shuffled\n * using the specified [random] instance as the source of
randomness.\n *\n * @sample
samples.collections.Collections.Collections.collectionShuffled\n
*\n\n@SinceKotlin("1.3")\n\npublic fun <T> Iterable<T>.shuffled(random:
Random): List<T> = toMutableList().apply { shuffle(random) }\n\n\ninternal fun <T>
List<T>.optimizeReadOnlyList() = when (size) {\n  0 -> emptyList()\n  1 -> listOf(this[0])\n  else ->
this\n}\n\n\n/**\n * Searches this list or its range for the provided [element] using the binary search algorithm.\n *
The list is expected to be sorted into ascending order according to the Comparable natural ordering of its elements.\n *
otherwise the result is undefined.\n *\n * If the list contains multiple elements equal to the specified [element], there
is no guarantee which one will be found.\n *\n * `null` value is considered to be less than any non-null value.\n *
*\n *

```

@return the index of the element, if it is contained in the list within the specified range;\n \* otherwise, the inverted insertion point ``(-insertion point - 1)``.\n \* The insertion point is defined as the index at which the element should be inserted,\n \* so that the list (or the specified subrange of list) still remains sorted.\n \* @sample samples.collections.Collections.Lists.binarySearchOnComparable\n \* @sample samples.collections.Collections.Lists.binarySearchWithBoundaries\n \*/\npublic fun <T : Comparable<T>> List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\n rangeCheck(size, fromIndex, toIndex)\n var low = fromIndex\n var high = toIndex - 1\n while (low <= high) {\n val mid = (low + high).ushr(1) // safe from overflows\n val midVal = get(mid)\n val cmp = compareValues(midVal, element)\n if (cmp < 0)\n low = mid + 1\n else if (cmp > 0)\n high = mid - 1\n else\n return mid // key found\n }\n return -(low + 1) // key not found\n}\n\n/\*\*\n \* Searches this list or its range for the provided [element] using the binary search algorithm.\n \* The list is expected to be sorted into ascending order according to the specified [comparator],\n \* otherwise the result is undefined.\n \*\n \* If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.\n \* `null` value is considered to be less than any non-null value.\n \*\n \* @return the index of the element, if it is contained in the list within the specified range;\n \* otherwise, the inverted insertion point ``(-insertion point - 1)``.\n \* The insertion point is defined as the index at which the element should be inserted,\n \* so that the list (or the specified subrange of list) still remains sorted according to the specified [comparator].\n \* @sample samples.collections.Collections.Lists.binarySearchWithComparator\n \*/\npublic fun <T> List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {\n rangeCheck(size, fromIndex, toIndex)\n var low = fromIndex\n var high = toIndex - 1\n while (low <= high) {\n val mid = (low + high).ushr(1) // safe from overflows\n val midVal = get(mid)\n val cmp = comparator.compare(midVal, element)\n if (cmp < 0)\n low = mid + 1\n else if (cmp > 0)\n high = mid - 1\n else\n return mid // key found\n }\n return -(low + 1) // key not found\n}\n\n/\*\*\n \* Searches this list or its range for an element having the key returned by the specified [selector] function\n \* equal to the provided [key] value using the binary search algorithm.\n \* The list is expected to be sorted into ascending order according to the Comparable natural ordering of keys of its elements.\n \* otherwise the result is undefined.\n \*\n \* If the list contains multiple elements with the specified [key], there is no guarantee which one will be found.\n \* `null` value is considered to be less than any non-null value.\n \*\n \* @return the index of the element with the specified [key], if it is contained in the list within the specified range;\n \* otherwise, the inverted insertion point ``(-insertion point - 1)``.\n \* The insertion point is defined as the index at which the element should be inserted,\n \* so that the list (or the specified subrange of list) still remains sorted.\n \* @sample samples.collections.Collections.Lists.binarySearchByKey\n \*/\npublic inline fun <T, K : Comparable<K>> List<T>.binarySearchBy(\n key: K?,\n fromIndex: Int = 0,\n toIndex: Int = size,\n crossinline selector: (T) -> K?): Int =\n binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }\n\n// do not introduce this overload --- too rare\npublic fun <T, K> List<T>.binarySearchBy(key: K, comparator: Comparator<K>, fromIndex: Int = 0, toIndex: Int = size(), selector: (T) -> K): Int =\n binarySearch(fromIndex, toIndex) { comparator.compare(selector(it), key) }\n\n/\*\*\n \* Searches this list or its range for an element for which the given [comparison] function returns zero using the binary search algorithm.\n \* The list is expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements,\n \* i.e. negative values come before zero and zeroes come before positive values.\n \* Otherwise, the result is undefined.\n \*\n \* If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found.\n \*\n \* @param comparison function that returns zero when called on the list element being searched.\n \* On the elements coming before the target element, the function must return negative values;\n \* on the elements coming after the target element, the function must return positive values.\n \*\n \* @return the index of the found element, if it is contained in the list within the specified range;\n \* otherwise, the inverted insertion point ``(-insertion point - 1)``.\n \* The insertion point is defined as the index at which the element should be inserted,\n \* so that the list (or the

```

specified subrange of list) still remains sorted.\n * @sample
samples.collections.Collections.Lists.binarySearchWithComparisonFunction\n
*\npublic fun <T> List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {\n
rangeCheck(size, fromIndex, toIndex)\n\n    var low = fromIndex\n    var high = toIndex - 1\n    while (low <=
high) {\n        val mid = (low + high).ushr(1) // safe from overflows\n        val midVal = get(mid)\n        val cmp =
comparison(midVal)\n        if (cmp < 0)\n            low = mid + 1\n        else if (cmp > 0)\n            high = mid - 1\n        else\n            return mid // key found\n    }\n    return -(low + 1) // key not found\n}\n\n/**\n * Checks that `from`
and `to` are in\n * the range of [0..size] and throws an appropriate exception, if they aren't.\n *\nprivate fun
rangeCheck(size: Int, fromIndex: Int, toIndex: Int) {\n    when {\n        fromIndex > toIndex -> throw
IllegalArgumentException("fromIndex ($fromIndex) is greater than toIndex ($toIndex).")\n        fromIndex < 0 ->
throw IndexOutOfBoundsException("fromIndex ($fromIndex) is less than zero.")\n        toIndex > size -> throw
IndexOutOfBoundsException("toIndex ($toIndex) is greater than size ($size).")\n    }\n}\n\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal expect fun checkIndexOverflow(index: Int):
Int\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal expect fun checkCountOverflow(count: Int):
Int\n\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun throwIndexOverflow() { throw
ArithmeticException("Index overflow has happened.") }\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun
throwCountOverflow() { throw ArithmeticException("Count overflow has happened.") }\n\n"/**\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n@file:OptIn(kotlin.experimental.
ExperimentalTypeInference::class)\n\npackage
kotlin.collections\n\nimport kotlin.contracts.*\n\nprivate object EmptyMap : Map<Any?, Nothing>, Serializable {\n
    private const val serialVersionUID: Long = 8246714829545688274\n    override fun equals(other: Any?):
Boolean = other is Map<*, *> && other.isEmpty()\n    override fun hashCode(): Int = 0\n    override fun toString():
String = "{}"\n    override val size: Int get() = 0\n    override fun isEmpty(): Boolean = true\n\n    override fun
containsKey(key: Any?): Boolean = false\n    override fun containsValue(value: Nothing): Boolean = false\n
    override fun get(key: Any?): Nothing? = null\n    override val entries: Set<Map.Entry<Any?, Nothing>> get() =
EmptySet\n    override val keys: Set<Any?> get() = EmptySet\n    override val values: Collection<Nothing> get() =
EmptyList\n\n    private fun readResolve(): Any = EmptyMap\n}\n\n/**\n * Returns an empty read-only map of
specified type.\n *\n * The returned map is serializable
(JVM).\n *\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n *\npublic fun <K, V>
emptyMap(): Map<K, V> = @Suppress("UNCHECKED_CAST") (EmptyMap as Map<K, V>)\n\n/**\n * Returns
a new read-only map with the specified contents, given as a list of pairs\n * where the first value is the key and the
second is the value.\n *\n * If multiple pairs have the same key, the resulting map will contain the value from the
last of those pairs.\n *\n * Entries of the map are iterated in the order they were specified.\n *\n * The returned map
is serializable (JVM).\n *\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\n *\npublic fun <K,
V> mapOf(vararg pairs: Pair<K, V>): Map<K, V> =\n    if (pairs.size > 0)\n        pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else emptyMap()\n\n/**\n * Returns an empty read-only
map.\n *\n * The returned map is serializable (JVM).\n *\n * @sample
samples.collections.Maps.Instantiation.emptyReadOnlyMap\n *\n@kotlin.internal.InlineOnly\npublic
inline fun <K, V> mapOf(): Map<K, V> = emptyMap()\n\n/**\n * Returns an empty new [MutableMap].\n *\n * The
returned map preserves the entry iteration order.\n *\n * @sample
samples.collections.Maps.Instantiation.emptyMutableMap\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> mutableMapOf():
MutableMap<K, V> = LinkedHashMap()\n\n/**\n * Returns a new [MutableMap] with the specified contents, given
as a list of pairs\n * where the first component is the key and the second is the value.\n *\n * If multiple pairs have
the same key, the resulting map will contain the value from the last of those pairs.\n *\n * Entries of the map are
iterated in the order they were specified.\n *\n * @sample

```

```

samples.collections.Maps.Instantiation.mutableMapFromPairs\n * @sample
samples.collections.Maps.Instantiation.emptyMutableMap\n *\npublic fun <K, V> mutableMapOf(vararg pairs:
Pair<K, V>): MutableMap<K, V> =\n  LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply
  { putAll(pairs) }\n\n/**\n * Returns an empty new [HashMap].\n *\n * @sample
samples.collections.Maps.Instantiation.emptyHashMap\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> hashMapOf(): HashMap<K, V>
= HashMap<K, V>()\n\n/**\n * Returns a new [HashMap] with the specified contents, given as a list of pairs\n *
where the first component is the key and the second is the value.\n *\n * @sample
samples.collections.Maps.Instantiation.hashMapFromPairs\n *\npublic fun <K, V> hashMapOf(vararg pairs:
Pair<K, V>): HashMap<K, V> = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\n\n/**\n *
Returns an empty new [LinkedHashMap].\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline
fun <K, V> linkedMapOf(): LinkedHashMap<K, V> = LinkedHashMap<K, V>()\n\n/**\n * Returns a new
[LinkedHashMap] with the specified contents, given as a list of pairs\n * where the first component is the key and
the second is the value.\n *\n * If multiple
pairs have the same key, the resulting map will contain the value from the last of those pairs.\n *\n * Entries of the
map are iterated in the order they were specified.\n *\n * @sample
samples.collections.Maps.Instantiation.linkedMapFromPairs\n *\npublic fun <K, V> linkedMapOf(vararg pairs:
Pair<K, V>): LinkedHashMap<K, V> = pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))\n\n/**\n * Builds
a new read-only [Map] by populating a [MutableMap] using the given [builderAction]\n * and returning a read-only
map with the same key-value pairs.\n *\n * The map passed as a receiver to the [builderAction] is valid only inside
that function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * Entries of the map are
iterated in the order they were added by the [builderAction].\n *\n * @sample
samples.collections.Builders.Maps.buildMapSample\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
buildMap(@BuilderInference
builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {\n  contract { callsInPlace(builderAction,
InvocationKind.EXACTLY_ONCE) }\n  return
buildMapInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@koti
n.internal.InlineOnly\ninternal expect inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>.() ->
Unit): Map<K, V>\n\n/**\n * Builds a new read-only [Map] by populating a [MutableMap] using the given
[builderAction]\n * and returning a read-only map with the same key-value pairs.\n *\n * The map passed as a
receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an
unspecified behavior.\n *\n * [capacity] is used to hint the expected number of pairs added in the [builderAction].\n
*\n * Entries of the map are iterated in the order they were added by the [builderAction].\n *\n * @throws
IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample
samples.collections.Builders.Maps.buildMapSample\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {\n
contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n  return buildMapInternal(capacity,
builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineO
nly\ninternal expect inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>.() ->
Unit): Map<K, V>\n\n/**\n * Calculate the initial capacity of a map.\n *\n@PublishedApi\ninternal expect fun
mapCapacity(expectedSize: Int): Int\n\n/**\n * Returns `true` if this map is not empty.\n *\n * @sample
samples.collections.Maps.Usage.mapIsNotEmpty\n *\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
Map<out K, V>.isEmpty(): Boolean = !isEmpty()\n\n/**\n * Returns `true` if this nullable map
is either null or empty.\n *\n * @sample samples.collections.Maps.Usage.mapIsNullOrEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>?.isNullOrEmpty(): Boolean {\n  contract {\n    returns(false) implies (this@isNullOrEmpty != null)\n  }\n\n

```

```

return this == null || isEmpty()\n\n/**\n * Returns the [Map] if its not `null`, or the empty [Map] otherwise.\n
*\n * @sample samples.collections.Maps.Usage.mapOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
<K, V> Map<K, V>?.orElse(): Map<K, V> = this ?: emptyMap()\n\n/**\n * Returns this map if it's not empty\n *
or the result of calling [defaultValue] function if the map is empty.\n */\n * @sample
samples.collections.Maps.Usage.mapIfEmpty\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =\n    if (isEmpty())
defaultValue() else this\n\n/**\n * Checks if the map contains the
given key.\n */\n * This method allows to use the `x` in map` syntax for checking whether an object is contained in
the map.\n */\n * @sample samples.collections.Maps.Usage.containsKey\n */\n@kotlin.internal.InlineOnly\npublic
inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean =
containsKey(key)\n\n/**\n * Returns the value corresponding to the given [key], or `null` if such a key is not present
in the map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V>
Map<out K, V>.get(key: K): V? =\n    @Suppress("UNCHECKED_CAST") (this as Map<K,
V>).get(key)\n\n/**\n * Allows to use the index operator for storing values in a mutable map.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.set(key: K, value: V): Unit
{\n    put(key, value)\n}\n\n/**\n * Returns `true` if the map contains the specified [key].\n */\n * Allows to
overcome type-safety restriction of `containsKey`
that requires to pass a key of type `K`.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
<@kotlin.internal.OnlyInputTypes K> Map<out K, *>.containsKey(key: K): Boolean =\n    @Suppress("UNCHECKED_CAST")
(this as Map<K, *>).containsKey(key)\n\n/**\n * Returns `true` if the map
maps one or more keys to the specified [value].\n */\n * Allows to overcome type-safety restriction of
`containsValue` that requires to pass a value of type `V`.\n */\n * @sample
samples.collections.Maps.Usage.containsValue\n */\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")
// false warning, extension takes precedence in some cases\n@kotlin.internal.InlineOnly\npublic inline fun <K,
@kotlin.internal.OnlyInputTypes V> Map<K, V>.containsValue(value: V): Boolean =
this.containsValue(value)\n\n/**\n * Removes the specified key and its corresponding value from this map.\n */\n
* @return the previous value associated with the key, or `null` if the key was not present in the map.\n\n * Allows to
overcome
type-safety restriction of `remove` that requires to pass a key of type `K`.\n */\n@kotlin.internal.InlineOnly\npublic
inline fun <@kotlin.internal.OnlyInputTypes K, V> MutableMap<out K, V>.remove(key: K): V? =\n    @Suppress("UNCHECKED_CAST")
(this as MutableMap<K, V>).remove(key)\n\n/**\n * Returns the key
component of the map entry.\n */\n * This method allows to use destructuring declarations when working with maps,
for example:\n * ```\n * for ((key, value) in map) {\n *     // do something with the key and the value\n * }\n * ```\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> Map.Entry<K, V>.component1(): K =
key\n\n/**\n * Returns the value component of the map entry.\n */\n * This method allows to use destructuring
declarations when working with maps, for example:\n * ```\n * for ((key, value) in map) {\n *     // do something
with the key and the value\n * }\n * ```\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V>
Map.Entry<K, V>.component2():
V = value\n\n/**\n * Converts entry to [Pair] with key being first component and value being second.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key,
value)\n\n/**\n * Returns the value for the given key, or the result of the [defaultValue] function if there was no
entry for the given key.\n */\n * @sample samples.collections.Maps.Usage.getOrElse\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<K, V>.getOrElse(key: K, defaultValue: () -> V): V
= get(key) ?: defaultValue()\n\ninternal inline fun <K, V> Map<K, V>.getOrElseNullable(key: K, defaultValue: ()
-> V): V {\n    val value = get(key)\n    if (value == null && !containsKey(key)) {\n        return defaultValue()\n    }
else {\n        @Suppress("UNCHECKED_CAST")\n        return value as V\n    }\n}\n\n/**\n * Returns the value
for the given [key] or throws an exception if there is no such key in the map.\n */\n * If the map was created by
[withDefault],

```

resorts to its `defaultValue` provider function instead of throwing an exception.

`@throws NoSuchElementException` when the map doesn't contain a value for the specified key and no implicit default value was provided for that map.

```

@SinceKotlin("1.1")
public fun <K, V> Map<K, V>.getValue(key: K): V
= getOrImplicitDefault(key)

```

Returns the value for the given key. If the key is not found in the map, calls the `[defaultValue]` function, puts its result into the map under the given key and returns it. Note that the operation is not guaranteed to be atomic if the map is being modified concurrently.

`@sample`

```

samples.collections.Maps.Usage.getOrPut
public inline fun <K, V> MutableMap<K, V>.getOrPut(key: K,
defaultValue: () -> V): V {
    val value = get(key)
    return if (value == null) {
        val answer =
defaultValue()
        put(key, answer)
        answer
    } else {
        value
    }
}

```

Returns an `[Iterator]` over the entries in the `[Map]`.

`@sample`

```

samples.collections.Maps.Usage.forOverEntries
@kotlin.internal.InlineOnly
public inline operator fun <K, V> Map<out K, V>.iterator():
Iterator<Map.Entry<K, V>> = entries.iterator()

```

Returns a `[MutableIterator]` over the mutable entries in the `[MutableMap]`.

```

@kotlin.jvm.JvmName("mutableIterator")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<K, V>.iterator(): MutableIterator<MutableMap.MutableEntry<K, V>> =
entries.iterator()

```

Populates the given `[destination]` map with entries having the keys of this map and the values obtained by applying the `[transform]` function to each entry in this `[Map]`.

```

public inline fun <K, V, R, M : MutableMap<in K, in R>> Map<out K, V>.mapValuesTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {
    return entries.associateByTo(destination, { it.key }, transform)
}

```

Populates the given `[destination]` map with entries having the keys obtained by applying the `[transform]` function to each entry in this `[Map]` and the values of this map. In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite the value associated with the former one.

```

public inline fun <K, V, R, M : MutableMap<in R, in V>> Map<out K, V>.mapKeysTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {
    return
entries.associateByTo(destination, transform, { it.value })
}

```

Puts all the given `[pairs]` into this `[MutableMap]` with the first component in the pair being the key and the second the value.

```

public fun <K, V> MutableMap<in K, in V>.putAll(pairs: Array<out Pair<K, V>>): Unit {
    for ((key, value) in pairs) {
        put(key, value)
    }
}

```

Puts all the elements of the given collection into this `[MutableMap]` with the first component in the pair being the key and the second the value.

```

public fun <K, V> MutableMap<in K, in V>.putAll(pairs:
Iterable<Pair<K, V>>): Unit {
    for ((key, value) in pairs) {
        put(key, value)
    }
}

```

Puts all the elements of the given sequence into this `[MutableMap]` with the first component in the pair being the key and the second the value.

```

public fun <K, V> MutableMap<in K, in V>.putAll(pairs: Sequence<Pair<K, V>>): Unit
{
    for ((key, value) in pairs) {
        put(key, value)
    }
}

```

Returns a new map with entries having the keys of this map and the values obtained by applying the `[transform]` function to each entry in this `[Map]`. The returned map preserves the entry iteration order of the original map.

`@sample`

```

samples.collections.Maps.Transformations.mapValues
public inline fun <K, V, R> Map<out K, V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {
    return mapValuesTo(LinkedHashMap<K, R>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()
}

```

Returns a new `Map` with entries having the keys obtained by applying the `[transform]` function to each entry in this `[Map]` and the values of this map. In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite the value associated with the former one. The returned map preserves the entry iteration order of the original map.

`@sample`

```

samples.collections.Maps.Transformations.mapKeys
public inline fun <K, V, R> Map<out K, V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {
    return mapKeysTo(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()
}

```

Returns a map containing all key-value pairs with keys matching the given `[predicate]`. The returned map preserves the entry iteration order of the original map.

`@sample`

```

samples.collections.Maps.Filtering.filterKeys
public inline fun <K, V>

```

```

Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {
    val result = LinkedHashMap<K, V>()
    for (entry in this) {
        if (predicate(entry.key)) {
            result.put(entry.key, entry.value)
        }
    }
    return result
}

Returns a map containing all key-value pairs with values matching the given [predicate].
The returned map preserves the entry iteration order of the original map.
@sample
samples.collections.Maps.Filtering.filterValues

public inline fun <K, V> Map<out K, V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {
    val result = LinkedHashMap<K, V>()
    for (entry in this) {
        if (predicate(entry.value)) {
            result.put(entry.key, entry.value)
        }
    }
    return result
}

Appends all entries matching the given [predicate] into the mutable map given as [destination] parameter.
@return the destination map.
@sample
samples.collections.Maps.Filtering.filterTo

public inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {
    for (element in this) {
        if (predicate(element)) {
            destination.put(element.key, element.value)
        }
    }
    return destination
}

Returns a new map containing all key-value pairs matching the given [predicate].
The returned map preserves the entry iteration order of the original map.
@sample
samples.collections.Maps.Filtering.filter

public inline fun <K, V> Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {
    return filterTo(LinkedHashMap<K, V>(), predicate)
}

Appends all entries not matching the given [predicate] into the given [destination].
@return the destination map.
@sample
samples.collections.Maps.Filtering.filterNotTo

public inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {
    for (element in this) {
        if (!predicate(element)) {
            destination.put(element.key, element.value)
        }
    }
    return destination
}

Returns a new map containing all key-value pairs not matching the given [predicate].
The returned map preserves the entry iteration order of the original map.
@sample
samples.collections.Maps.Filtering.filterNot

public inline fun <K, V> Map<out K, V>.filterNot(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {
    return filterNotTo(LinkedHashMap<K, V>(), predicate)
}

Returns a new map containing all key-value pairs from the given collection of pairs.
The returned map preserves the entry iteration order of the original collection.
If any of two pairs would have the same key the last one gets added to the map.
public fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V> {
    if (this is Collection) {
        return when (size) {
            0 -> emptyMap()
            1 -> mapOf(if (this is List) this[0] else iterator().next())
            else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))
        }
    }
    return toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()
}

Populates and returns the [destination] mutable map with key-value pairs from the given collection of pairs.
public fun <K, V, M : MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M = destination.apply { putAll(this@toMap) }

Returns a new map containing all key-value pairs from the given array of pairs.
The returned map preserves the entry iteration order of the original array.
If any of two pairs would have the same key the last one gets added to the map.
public fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K, V> = when (size) {
    0 -> emptyMap()
    1 -> mapOf(this[0])
    else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))
}

Populates and returns the [destination] mutable map with key-value pairs from the given array of pairs.
public fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K, V>>.toMap(destination: M): M = destination.apply { putAll(this@toMap) }

Returns a new map containing all key-value pairs from the given sequence of pairs.
The returned map preserves the entry iteration order of the original sequence.
If any of two pairs would have the same key the last one gets added to the map.
public fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> = toMap(LinkedHashMap<K, V>().optimizeReadOnlyMap())

Populates and returns the [destination] mutable map with key-value pairs from the given sequence of pairs.
public fun <K, V, M : MutableMap<in K, in V>> Sequence<Pair<K, V>>.toMap(destination: M): M = destination.apply { putAll(this@toMap) }

Returns a new read-only map containing all key-value pairs from the original map.
The returned map preserves the entry iteration order of the original map.
@Since Kotlin("1.1")
public fun

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<K, V> Map<out K, V>.toMap(): Map<K, V> = when (size) { \n 0 -> emptyMap()\n 1 -> toSingletonMap()\n
else -> toMutableMap()\n}\n\n/**\n * Returns a new mutable map containing all key-value pairs from the original
map.\n * \n * The returned map preserves the entry iteration order of the original map.\n
*\n @SinceKotlin("1.1")\n public fun <K, V> Map<out K, V>.toMutableMap(): MutableMap<K, V> =
LinkedHashMap(this)\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs from the
given map.\n * \n @SinceKotlin("1.1")\n public fun <K, V, M : MutableMap<in K, in V>> Map<out K,
V>.toMap(destination: M): M =\n  destination.apply { putAll(this@toMap) }\n\n/**\n * Creates a new read-only
map by replacing or adding an entry to this map from a given key-value [pair].\n * \n * The returned map preserves
the entry iteration order of the original map.\n * \n * The [pair] is iterated in the end if it has a unique key.\n
*\n public
operator fun <K, V> Map<out K, V>.plus(pair:
Pair<K, V>): Map<K, V> =\n  if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply { put(pair.first,
pair.second) }\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from a given
collection of key-value [pairs].\n * \n * The returned map preserves the entry iteration order of the original map.\n
*\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.\n * \n public
operator fun <K,
V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V> =\n  if (this.isEmpty()) pairs.toMap() else
LinkedHashMap(this).apply { putAll(pairs) }\n\n/**\n * Creates a new read-only map by replacing or adding entries
to this map from a given array of key-value [pairs].\n * \n * The returned map preserves the entry iteration order
of the original map.\n * \n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.\n
*\n public
operator fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K,
V> =\n  if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }\n\n/**\n * Creates a
new read-only map by replacing or adding entries to this map from a given sequence of key-value [pairs].\n * \n *
The returned map preserves the entry iteration order of the original map.\n * \n * Those [pairs] with unique keys
are iterated in the end in the order of [pairs] sequence.\n * \n public operator fun <K, V> Map<out K, V>.plus(pairs:
Sequence<Pair<K, V>>): Map<K, V> =\n  LinkedHashMap(this).apply { putAll(pairs)
}.optimizeReadOnlyMap()\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from
another [map].\n * \n * The returned map preserves the entry iteration order of the original map.\n * \n * Those
entries of another [map] that are missing in this map are iterated in the end in the order of that [map].\n * \n
public operator fun
<K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V> =\n  LinkedHashMap(this).apply { putAll(map)
}\n\n/**\n
*\n * Appends or replaces the given [pair] in this mutable map.\n * \n @kotlin.internal.InlineOnly\n public inline
operator fun <K, V> MutableMap<in K, in V>.plusAssign(pair: Pair<K, V>) {\n  put(pair.first,
pair.second)\n}\n\n/**\n * Appends or replaces all pairs from the given collection of [pairs] in this mutable
map.\n * \n @kotlin.internal.InlineOnly\n public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs:
Iterable<Pair<K, V>>) {\n  putAll(pairs)\n}\n\n/**\n * Appends or replaces all pairs from the given array of [pairs]
in this mutable map.\n * \n @kotlin.internal.InlineOnly\n public inline operator fun <K, V> MutableMap<in K, in
V>.plusAssign(pairs: Array<out Pair<K, V>>) {\n  putAll(pairs)\n}\n\n/**\n * Appends or replaces all pairs from
the given sequence of [pairs] in this mutable map.\n * \n @kotlin.internal.InlineOnly\n public inline operator fun
<K,
V> MutableMap<in K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {\n  putAll(pairs)\n}\n\n/**\n * Appends
or replaces all entries from the given [map] in this mutable map.\n * \n @kotlin.internal.InlineOnly\n public inline
operator fun <K, V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {\n  putAll(map)\n}\n\n/**\n *
Returns a map containing all entries of the original map except the entry with the given [key].\n * \n * The returned
map preserves the entry iteration order of the original map.\n * \n @SinceKotlin("1.1")\n public operator fun <K,
V> Map<out K, V>.minus(key: K): Map<K, V> =\n  this.toMutableMap().apply { minusAssign(key)
}.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map except those entries\n
*\n * the keys of which are contained in the given [keys] collection.\n * \n * The returned map preserves the entry
iteration order of the original map.\n * \n @SinceKotlin("1.1")\n public operator fun <K, V> Map<out K,
V>.minus(keys: Iterable<K>): Map<K, V> =\n  this.toMutableMap().apply { minusAssign(keys)
}.optimizeReadOnlyMap()\n\n/**\n

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* Returns a map containing all entries of the original map except those entries
* the keys of which are contained
in the given [keys] array.
*/
public operator fun <K, V> Map<out K, V>.minus(keys: Array<out K>): Map<K, V>
= this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()
*/
* Returns a map
containing all entries of the original map except those entries
* the keys of which are contained in the given [keys]
sequence.
*/
* The returned map preserves the entry iteration order of the original map.
*/
public operator fun <K, V> Map<out K, V>.minus(keys: Sequence<K>): Map<K, V>
= this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()
*/
* Removes the entry
with the given [key] from this mutable map.
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public
inline operator fun <K, V> MutableMap<K,
V>.minusAssign(key: K) {
    remove(key)
}
*/
* Removes all entries the keys of which are contained in
the given [keys] collection from this mutable map.
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<K,
V>.minusAssign(keys: Iterable<K>) {
    this.keys.removeAll(keys)
}
*/
* Removes all entries the keys of
which are contained in the given [keys] array from this mutable map.
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<K,
V>.minusAssign(keys: Array<out K>) {
    this.keys.removeAll(keys)
}
*/
* Removes all entries from the
keys of which are contained in the given [keys] sequence from this mutable map.
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<K,
V>.minusAssign(keys: Sequence<K>) {
    this.keys.removeAll(keys)
}
*/
// do not expose for now
@PublishedApi
internal fun <K, V> Map<K,
V>.optimizeReadOnlyMap() = when (size) {
    0 -> emptyMap()
    1 -> toSingletonMapOrSelf()
    else ->
this
}
*/
/*
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this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.
*/
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SetsKt")
@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)
package kotlin.collections
import kotlin.contracts.*
internal object
EmptySet : Set<Nothing>, Serializable {
    private const val serialVersionUID: Long =
3406603774387020532
    override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()
    override fun hashCode(): Int = 0
    override fun toString(): String = ""
    override val size: Int get() = 0
    override fun isEmpty(): Boolean = true
    override fun contains(element: Nothing): Boolean = false
    override fun
containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()
    override fun iterator():
Iterator<Nothing> = EmptyIterator
    private fun readResolve(): Any = EmptySet
}
*/
* Returns an
empty read-only set. The returned set is serializable (JVM).
*/
@sample
samples.collections.Collections.Sets.emptyReadOnlySet
*/
public fun <T> emptySet(): Set<T> =
EmptySet
*/
* Returns a new read-only set with the given elements.
*/
* Elements of the set are iterated in the
order they were specified.
*/
* The returned set is serializable (JVM).
*/
@sample
samples.collections.Collections.Sets.readOnlySet
*/
public fun <T> setOf(vararg elements: T): Set<T> = if
(elements.size > 0) elements.toSet() else emptySet()
*/
* Returns an empty read-only set. The returned set is
serializable (JVM).
*/
@sample
samples.collections.Collections.Sets.emptyReadOnlySet
*/
@kotlin.internal.InlineOnly
public inline fun <T> setOf(): Set<T> = emptySet()
*/
* Returns
an empty new [MutableSet].
*/
* The returned set preserves the element iteration order.
*/
@sample
samples.collections.Collections.Sets.emptyMutableSet
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> mutableSetOf(): MutableSet<T> =
LinkedHashSet()
*/
* Returns a new [MutableSet] with the given elements.
*/
* Elements of the set are
iterated in the order they were specified.
*/
@sample
samples.collections.Collections.Sets.mutableSet
*/
public fun <T> mutableSetOf(vararg elements: T): MutableSet<T> =
elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))
*/
* Returns an empty new [HashSet].

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*\/n@SinceKotlin("1.1")n@kotlin.internal.InlineOnlynpublic inline fun <T> hashSetOf(): HashSet<T> =
HashSet()\n\n/** Returns a new [HashSet] with the given elements. */npublic fun <T> hashSetOf(vararg elements:
T): HashSet<T> = elements.toCollection(HashSet(mapCapacity(elements.size)))\n\n/**\n * Returns an empty new
[LinkedHashSet].\n *
@sample samples.collections.Collections.Sets.emptyLinkedHashSetn
*\/n@SinceKotlin("1.1")n@kotlin.internal.InlineOnlynpublic inline fun <T> linkedSetOf(): LinkedHashSet<T>
= LinkedHashSet()\n\n/**\n * Returns a new [LinkedHashSet] with the given elements.\n * Elements of the set are
iterated in the order they were specified.\n * @sample samples.collections.Collections.Sets.linkedHashSetn
*\/npublic fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> =
elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/**\n * Returns a new read-only set either
with single given element, if it is not null, or empty set if the element is null.\n * The returned set is serializable
(JVM).\n * @sample samples.collections.Collections.Sets.setOfNotNull\n *\/n@SinceKotlin("1.4")npublic fun <T
: Any> setOfNotNull(element: T?): Set<T> = if (element != null) setOf(element) else emptySet()\n\n/**\n * Returns
a new read-only set only with those given elements, that are not null.\n * Elements
of the set are iterated in the order they were specified.\n * The returned set is serializable (JVM).\n * @sample
samples.collections.Collections.Sets.setOfNotNull\n *\/n@SinceKotlin("1.4")npublic fun <T : Any>
setOfNotNull(vararg elements: T?): Set<T> {\n    return elements.filterNotNullTo(LinkedHashSet())\n}\n\n/**\n *
Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n * and returning a read-
only set with the same elements.\n * \n * The set passed as a receiver to the [builderAction] is valid only inside that
function.\n * Using it outside of the function produces an unspecified behavior.\n * \n * Elements of the set are
iterated in the order they were added by the [builderAction].\n * \n * @sample
samples.collections.Builders.Sets.buildSetSample\n
*\/n@SinceKotlin("1.3")n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnlynpublic inline fun <E>
buildSet(@BuilderInference builderAction: MutableSet<E>.() -> Unit): Set<E> {\n    contract
{ callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return
buildSetInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")n@ExperimentalStdlibApi\n@kotlin
.internal.InlineOnly\ninternal expect inline fun <E> buildSetInternal(builderAction: MutableSet<E>.() -> Unit):
Set<E>\n\n/**\n * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n *
and returning a read-only set with the same elements.\n * \n * The set passed as a receiver to the [builderAction] is
valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n * \n *
[capacity] is used to hint the expected number of elements added in the [builderAction].\n * \n * Elements of the set
are iterated in the order they were added by the [builderAction].\n * \n * @throws IllegalArgumentException if the
given [capacity] is negative.\n * \n * @sample samples.collections.Builders.Sets.buildSetSample\n
*\/n@SinceKotlin("1.3")n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnlynpublic
inline fun <E> buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>.() -> Unit): Set<E> {\n
contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return buildSetInternal(capacity,
builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")n@ExperimentalStdlibApi\n@kotlin.internal.InlineO
nly\ninternal expect inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>.() -> Unit):
Set<E>\n\n/**\n * Returns this Set if it's not `null` and the empty set otherwise.
*\/n@kotlin.internal.InlineOnlynpublic inline fun <T> Set<T>?.orEmpty(): Set<T> = this ?: emptySet()\n\ninternal
fun <T> Set<T>.optimizeReadOnlySet() = when (size) {\n    0 -> emptySet()\n    1 -> setOf(iterator().next())\n
else -> this\n}\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\/n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n@file:Suppress("PLATFORM
M_CLASS_MAPPED_TO_KOTLIN")\n\npackage kotlin.text\n\n/**\n * Parses the string as a signed [Byte]
number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\/n@SinceKotlin("1.1")npublic fun String.toByteArrayOrNull(): Byte? = toByteOrNull(radix = 10)\n\n/**\n * Parses

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the string as a signed [Byte] number and returns the result or `null` if the string is not a valid representation of a
number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion.
 * Since Kotlin("1.1")
public fun String.toByteArrayOrNull(radix: Int): Byte? {
    val int =
this.toIntOrNull(radix) ?: return null
    if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null
    return int.toByteArray()
}
 * Parses the string as a [Short] number and returns the result or `null`
if the string is not a valid representation of a number.
 * Since Kotlin("1.1")
public fun
String.toShortOrNull(): Short? = toShortOrNull(radix = 10)
 * Parses the string as a [Short] number and
returns the result or `null` if the string is not a valid representation of a number.
 * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 * Since Kotlin("1.1")
public fun String.toShortOrNull(radix: Int): Short? {
    val int =
this.toIntOrNull(radix) ?: return null
    if (int < Short.MIN_VALUE || int > Short.MAX_VALUE) return null
    return int.toShort()
}
 * Parses the string as an [Int] number and returns the result or `null` if the string
is not a valid representation of a number.
 * Since Kotlin("1.1")
public fun String.toIntOrNull(): Int? =
toIntOrNull(radix = 10)
 * Parses the string as an [Int] number and returns the result or `null` if the
string is not a valid representation
of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion.
 * Since Kotlin("1.1")
public fun String.toIntOrNull(radix: Int): Int? {
    checkRadix(radix)
    val length = this.length
    if (length == 0) return null
    val start: Int
    val isNegative: Boolean
    val limit:
Int
    val firstChar = this[0]
    if (firstChar < '0') { // Possible leading sign
        if (length == 1) return null //
non-digit (possible sign) only, no digits after
        start = 1
        if (firstChar == '-') {
            isNegative =
true
            limit = Int.MIN_VALUE
        } else if (firstChar == '+') {
            isNegative = false
            limit =
-Int.MAX_VALUE
        } else {
            return null
        }
        start = 0
        isNegative = false
        limit =
-Int.MAX_VALUE
    }
    val limitForMaxRadix = (-Int.MAX_VALUE) / 36
    var limitBeforeMul =
limitForMaxRadix
    var result = 0
    for (i in start until length) {
        val digit = digitOf(this[i], radix)
        if (digit < 0) return
null
        if (result < limitBeforeMul) {
            if (limitBeforeMul == limitForMaxRadix) {
                limitBeforeMul = limit / radix
            }
            if (result < limitBeforeMul) {
                return null
            }
        } else {
            return null
        }
        result *= radix
        if (result < limit + digit) return
null
        result -= digit
    }
    return if (isNegative) result else -result
}
 * Parses the string as a
[Long] number and returns the result or `null` if the string is not a valid representation of a number.
 * Since Kotlin("1.1")
public fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)
 * Parses the string as a [Long] number and returns the result or `null` if the string is not a valid representation
of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion.
 * Since Kotlin("1.1")
public fun String.toLongOrNull(radix: Int): Long? {
    checkRadix(radix)
    val length = this.length
    if (length == 0) return null
    val start: Int
    val isNegative:
Boolean
    val limit: Long
    val firstChar = this[0]
    if (firstChar < '0') { // Possible leading sign
        if
(length == 1) return null // non-digit (possible sign) only, no digits after
        start = 1
        if (firstChar == '-') {
            isNegative = true
            limit = Long.MIN_VALUE
        } else if (firstChar == '+') {
            isNegative = false
            limit = -Long.MAX_VALUE
        } else {
            return null
        }
        start =
0
        isNegative = false
        limit = -Long.MAX_VALUE
    }
    val limitForMaxRadix = (-
Long.MAX_VALUE) / 36
    var limitBeforeMul
= limitForMaxRadix
    var result = 0L
    for (i in start until length) {
        val digit = digitOf(this[i], radix)
        if (digit < 0) return null
        if (result < limitBeforeMul) {
            if (limitBeforeMul == limitForMaxRadix) {
                limitBeforeMul = limit / radix
            }
            if (result < limitBeforeMul) {
                return null
            }
        } else {
            return null
        }
        result *= radix
        if (result < limit +
digit) return null
        result -= digit
    }
    return if (isNegative) result else -result
}
internal fun
numberFormatException(input: String): Nothing = throw NumberFormatException("Invalid number format:
'$input'")
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 * Use

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*\n@file:kotlin.jvm.JvmName("\UnsignedKt")\n@file:OptIn(ExperimentalUnsignedTypes::class)\npackage
kotlin\n\n@PublishedApi\ninternal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor
Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)\n@PublishedApi\ninternal fun ulongCompare(v1: Long,
v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2 xor Long.MIN_VALUE)\n\n@PublishedApi\ninternal
fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()\n@PublishedApi\ninternal fun
uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()\n\n// Division and remainder are
based on Guava's UnsignedLongs implementation\n// Copyright 2011 The Guava
Authors\n\n@PublishedApi\ninternal fun ulongDivide(v1: ULong, v2: ULong): ULong {\n    val dividend =
v1.toLong()\n    val divisor = v2.toLong()\n    if (divisor < 0) { // i.e., divisor >= 2^63:\n        return if (v1 < v2)
ULong(0) else ULong(1)\n    }\n    // Optimization - use signed division if both dividend and divisor <
2^63\n    if (dividend >= 0) {\n        return ULong(dividend / divisor)\n    }\n    // Otherwise, approximate the
quotient, check, and correct if necessary.\n    val quotient = ((dividend ushr 1) / divisor) shl 1\n    val rem = dividend
- quotient * divisor\n    return ULong(quotient + if (ULong(rem) >= ULong(divisor)) 1 else
0)\n}\n\n@PublishedApi\ninternal fun ulongRemainder(v1: ULong, v2: ULong): ULong {\n    val dividend =
v1.toLong()\n    val divisor = v2.toLong()\n    if (divisor < 0) { // i.e., divisor >= 2^63:\n        return if (v1 < v2) {\n
v1 // dividend < divisor\n        } else {\n            v1 - v2 // dividend >= divisor\n        }\n    }\n    // Optimization
- use signed modulus if both dividend and divisor < 2^63\n    if (dividend >= 0) {\n        return ULong(dividend %
divisor)\n    }\n    // Otherwise, approximate the quotient, check, and correct if necessary.\n    val quotient =
((dividend ushr 1) / divisor) shl 1\n    val rem = dividend - quotient
* divisor\n    return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else
0)\n}\n\n@PublishedApi\ninternal fun doubleToUInt(v: Double): UInt = when {\n    v.isNaN() -> 0u\n    v <=
UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE\n    v >= UInt.MAX_VALUE.toDouble() ->
UInt.MAX_VALUE\n    v <= Int.MAX_VALUE -> v.toInt().toUInt()\n    else -> (v -
Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt()    // Int.MAX_VALUE < v <
UInt.MAX_VALUE\n}\n\n@PublishedApi\ninternal fun doubleToULong(v: Double): ULong = when {\n
v.isNaN() -> 0u\n    v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE\n    v >=
ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE\n    v < Long.MAX_VALUE ->
v.toLong().toULong()\n    // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not
representable in Double, so don't handle them.\n    else -> (v - 9223372036854775808.0).toLong().toULong() +
9223372036854775808uL    // Long.MAX_VALUE + 1 < v <
ULong.MAX_VALUE\n}\n\n\n@PublishedApi\ninternal fun
uintToDouble(v: Int): Double = (v and Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() *\n
2\n\n@PublishedApi\ninternal fun ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and
2047)\n\n\ninternal fun ulongToString(v: Long): String = ulongToString(v, 10)\n\n\ninternal fun ulongToString(v:
Long, base: Int): String {\n    if (v >= 0) return v.toString(base)\n    var quotient = ((v ushr 1) / base) shl 1\n    var
rem = v - quotient * base\n    if (rem >= base) {\n        rem -= base\n        quotient += 1\n    }\n    return
quotient.toString(base) + rem.toString(base)\n}\n\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\CollectionsKt")\n\npackage
kotlin.collections\n\n/**\n * Given an [iterator] function constructs an [Iterable] instance
that returns values through the [Iterator]\n * provided by that function.\n * @sample
samples.collections.Iterables.Building.iterable\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T> = object : Iterable<T> {\n    override fun iterator():
Iterator<T> = iterator()\n}\n\n\n/**\n * A wrapper over another [Iterable] (or any other object that can produce an
[Iterator]) that returns\n * an indexing iterator.\n */\n\ninternal class IndexingIterable<out T>(private val
iteratorFactory: () -> Iterator<T>) : Iterable<IndexedValue<T>> {\n    override fun iterator():

```



```

this@isEmpty.iterator()\n  if (iterator.hasNext()) {\n    yieldAll(iterator)\n  } else {\n
yieldAll(defaultValue())\n  }\n}\n\n/**\n * Returns a sequence of all elements from all sequences in this
sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Sequences.Transformations.flattenSequenceOfSequences\n
*\npublic fun <T> Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\n\n/**\n * Returns a
sequence of all elements from all iterables in this sequence.\n *\n * The operation is _intermediate_ and
_stateless_.\n *\n * @sample samples.collections.Sequences.Transformations.flattenSequenceOfLists\n
*\n@kotlin.jvm.JvmName("flattenSequenceOfIterable")\npublic fun <T> Sequence<Iterable<T>>.flatten():
Sequence<T> = flatten { it.iterator() }\n\nprivate fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>):
Sequence<R> {\n  if (this is TransformingSequence<*, *>) {\n    return (this as TransformingSequence<*,
T>).flatten(iterator)\n  }\n  return FlatteningSequence(this, { it }, iterator)\n}\n\n/**\n * Returns a pair of lists,
where\n * first list is built from the first values of each pair from this sequence,\n * second list is built from the
second values of each pair from this sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Sequences.Transformations.unzip\n
*\npublic fun <T, R> Sequence<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n  val listT = ArrayList<T>()\n  val listR = ArrayList<R>()\n  for (pair in this) {\n
listT.add(pair.first)\n  listR.add(pair.second)\n  }\n  return listT to listR\n}\n\n/**\n * Returns a sequence that
yields elements of this sequence randomly shuffled.\n *\n * Note that every iteration of the sequence returns
elements in a different order.\n *\n * The operation is _intermediate_ and _stateful_.\n
*\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.shuffled(): Sequence<T> = shuffled(Random)\n\n/**\n * Returns a
sequence that yields elements of this sequence randomly shuffled\n * using the specified [random]
instance as the source of randomness.\n *\n * Note that every iteration of the sequence returns elements in a
different order.\n *\n * The operation is _intermediate_ and _stateful_.\n
*\n@SinceKotlin("1.4")\npublic fun
<T> Sequence<T>.shuffled(random: Random): Sequence<T> = sequence<T> {\n  val buffer = toMutableList()\n
while (buffer.isNotEmpty()) {\n  val j = random.nextInt(buffer.size)\n  val last =
@OptIn(ExperimentalStdlibApi::class) buffer.removeLast()\n  val value = if (j < buffer.size) buffer.set(j, last)
else last\n  yield(value)\n  }\n}\n\n/**\n * A sequence that returns the values from the underlying [sequence]
that either match or do not match\n * the specified [predicate].\n *\n * @param sendWhen If true, values for which
the predicate returns true are returned. Otherwise,\n * values for which the predicate returns false are returned\n
*\ninternal class FilteringSequence<T>(\n  private val sequence: Sequence<T>,\n  private val sendWhen:
Boolean = true,\n  private val predicate: (T) -> Boolean\n) : Sequence<T> {\n  override fun iterator():
Iterator<T> = object : Iterator<T> {\n    val iterator = sequence.iterator()\n    var nextState:
Int = -1 // -1 for unknown, 0 for done, 1 for continue\n    var nextItem: T? = null\n    private fun calcNext()
{\n      while (iterator.hasNext()) {\n        val item = iterator.next()\n        if (predicate(item) ==
sendWhen) {\n          nextItem = item\n          nextState = 1\n          return\n        }\n      }\n      nextState = 0\n    }\n    override fun next(): T {\n      if (nextState == -1)\n        calcNext()\n      if (nextState == 0)\n        throw NoSuchElementException()\n      val result =
nextItem\n      nextItem = null\n      nextState = -1\n      @SuppressWarnings("UNCHECKED_CAST")\n      return result as T\n    }\n    override fun hasNext(): Boolean {\n      if (nextState == -1)\n        calcNext()\n      return nextState == 1\n    }\n  }\n}\n\n/**\n * A sequence which returns the results
of applying the given [transformer] function to the values\n * in the underlying [sequence].\n *\ninternal class
TransformingSequence<T, R>\nconstructor(private val sequence: Sequence<T>, private val transformer: (T) -> R) :
Sequence<R> {\n  override fun iterator(): Iterator<R> = object : Iterator<R> {\n    val iterator =
sequence.iterator()\n    override fun next(): R {\n      return transformer(iterator.next())\n    }\n  }\n  override fun hasNext(): Boolean {\n    return iterator.hasNext()\n  }\n}\n\ninternal fun <E>
flatten(iterator: (R) -> Iterator<E>): Sequence<E> {\n  return FlatteningSequence<T, R, E>(sequence,
transformer, iterator)\n}\n\n/**\n * A sequence which returns the results of applying the given [transformer]
function to the values\n * in the underlying [sequence], where the transformer function takes the index of the value
in the underlying\n * sequence along with the value itself.\n *\ninternal class

```

```

TransformingIndexedSequence<T, R>\nconstructor(private val sequence: Sequence<T>, private val transformer:
(Int, T) -> R) : Sequence<R> {\n  override fun iterator(): Iterator<R> = object : Iterator<R> {\n    val iterator =
sequence.iterator()\n    var index = 0\n    override fun next(): R {\n      return
transformer(checkIndexOverflow(index++), iterator.next())\n    }\n  }\n  override fun hasNext(): Boolean {\n
return iterator.hasNext()\n  }\n}\n\n/**\n * A sequence which combines values from the underlying
[sequence] with their indices and returns them as\n * [IndexedValue] objects.\n */\ninternal class
IndexingSequence<T>\nconstructor(private val sequence: Sequence<T>) : Sequence<IndexedValue<T>> {\n  override fun iterator(): Iterator<IndexedValue<T>> = object : Iterator<IndexedValue<T>> {\n    val iterator =
sequence.iterator()\n    var index = 0\n    override fun next(): IndexedValue<T> {\n      return
IndexedValue(checkIndexOverflow(index++),
iterator.next())\n    }\n  }\n  override fun hasNext(): Boolean {\n    return iterator.hasNext()\n  }\n}\n\n/**\n * A sequence which takes the values from two parallel underlying sequences, passes them to the
given\n * [transform] function and returns the values returned by that function. The sequence stops returning\n *
values as soon as one of the underlying sequences stops returning values.\n */\ninternal class MergingSequence<T1,
T2, V>\nconstructor(\n  private val sequence1: Sequence<T1>,\n  private val sequence2: Sequence<T2>,\n  private val transform: (T1, T2) -> V\n) : Sequence<V> {\n  override fun iterator(): Iterator<V> = object :
Iterator<V> {\n    val iterator1 = sequence1.iterator()\n    val iterator2 = sequence2.iterator()\n    override fun
next(): V {\n      return transform(iterator1.next(), iterator2.next())\n    }\n  }\n  override fun hasNext():
Boolean {\n    return
iterator1.hasNext() && iterator2.hasNext()\n  }\n}\n\ninternal class FlatteningSequence<T, R,
E>\nconstructor(\n  private val sequence: Sequence<T>,\n  private val transformer: (T) -> R,\n  private val
iterator: (R) -> Iterator<E>\n) : Sequence<E> {\n  override fun iterator(): Iterator<E> = object : Iterator<E> {\n
val iterator = sequence.iterator()\n    var itemIterator: Iterator<E>? = null\n\n    override fun next(): E {\n
if (!ensureItemIterator())\n      throw NoSuchElementException()\n    return itemIterator!!.next()\n  }\n\n  override fun hasNext(): Boolean {\n    return ensureItemIterator()\n  }\n\n  private fun
ensureItemIterator(): Boolean {\n    if (itemIterator?.hasNext() == false)\n      itemIterator = null\n\n    while (itemIterator == null) {\n      if (!iterator.hasNext()) {\n        return false\n      } else {\n
val element = iterator.next()\n        val nextItemIterator = iterator(transformer(element))\n        if (nextItemIterator.hasNext()) {\n          itemIterator = nextItemIterator\n          return true\n        }\n      }\n    }\n    return true\n  }\n}\n}\n\ninternal fun <T, C, R>
flatMapIndexed(source: Sequence<T>, transform: (Int, T) -> C, iterator: (C) -> Iterator<R>): Sequence<R> =\nsequence {\n  var index = 0\n  for (element in source) {\n    val result =
transform(checkIndexOverflow(index++), element)\n    yieldAll(iterator(result))\n  }\n}\n\n/**\n * A
sequence that supports drop(n) and take(n) operations\n */\ninternal interface DropTakeSequence<T> :
Sequence<T> {\n  fun drop(n: Int): Sequence<T>\n  fun take(n: Int): Sequence<T>\n}\n\n/**\n * A sequence that
skips [startIndex] values from the underlying [sequence]\n *
and stops returning values right before [endIndex], i.e. stops at `endIndex - 1`\n */\ninternal class
SubSequence<T>(\n  private val sequence: Sequence<T>,\n  private val startIndex: Int,\n  private val endIndex:
Int\n) : Sequence<T>, DropTakeSequence<T> {\n  init {\n    require(startIndex >= 0) { "\"startIndex should be
non-negative, but is $startIndex\"" }\n    require(endIndex >= 0) { "\"endIndex should be non-negative, but is
$endIndex\"" }\n    require(endIndex >= startIndex) { "\"endIndex should be not less than startIndex, but was
$endIndex < $startIndex\"" }\n  }\n\n  private val count: Int get() = endIndex - startIndex\n\n  override fun drop(n:
Int): Sequence<T> = if (n >= count) emptySequence() else SubSequence(sequence, startIndex + n, endIndex)\n\n  override fun take(n: Int): Sequence<T> = if (n >= count) this else SubSequence(sequence, startIndex, startIndex +
n)\n\n  override fun iterator() = object : Iterator<T> {\n    val iterator = sequence.iterator()\n    var position = 0\n    // Shouldn't be called from constructor to avoid premature iteration\n    private fun
drop() {\n      while (position < startIndex && iterator.hasNext()) {\n        iterator.next()\n        position++\n      }\n    }\n\n    override fun hasNext(): Boolean {\n      drop()\n      return (position <

```





```

inline fun require(value: Boolean): Unit {
    contract {
        returns()
        implies value
    }
    require(value) { "Failed requirement." }
}

/**
 * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is false.
 * @sample samples.misc.Preconditions.failRequireWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {
    contract {
        returns()
        implies value
    }
    if (!value) {
        val message = lazyMessage()
        throw IllegalArgumentException(message.toString())
    }
}

/**
 * Throws an [IllegalArgumentException] if the [value] is null. Otherwise returns the not null value.
 * @sample samples.misc.Preconditions.failRequireNotNullWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun <T : Any> requireNotNull(value: T?): T {
    contract {
        returns()
        implies (value != null)
    }
    return requireNotNull(value) { "Required value was null." }
}

/**
 * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value]
    is null. Otherwise
 * returns the not null value.
 * @sample samples.misc.Preconditions.failRequireNotNullWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun <T : Any> requireNotNull(value: T?, lazyMessage: () -> Any): T {
    contract {
        returns()
        implies (value != null)
    }
    if (value == null) {
        val message = lazyMessage()
        throw
        IllegalArgumentException(message.toString())
    } else {
        return value
    }
}

/**
 * Throws an [IllegalStateException] if the [value] is false.
 * @sample samples.misc.Preconditions.failCheckWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun check(value: Boolean): Unit {
    contract {
        returns()
        implies value
    }
    check(value) { "Check failed." }
}

/**
 * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.
 * @sample samples.misc.Preconditions.failCheckWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {
    contract {
        returns()
        implies value
    }
    if (!value) {
        val message = lazyMessage()
        throw IllegalStateException(message.toString())
    }
}

/**
 * Throws an [IllegalStateException] if the [value] is null. Otherwise
 * returns the not null value.
 * @sample samples.misc.Preconditions.failCheckWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun <T : Any> checkNotNull(value: T?): T {
    contract {
        returns()
        implies (value != null)
    }
    return checkNotNull(value) { "Required value was null." }
}

/**
 * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is null. Otherwise
 * returns the not null value.
 * @sample samples.misc.Preconditions.failCheckWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun <T : Any> checkNotNull(value: T?, lazyMessage: () -> Any): T {
    contract {
        returns()
        implies (value != null)
    }
    if (value == null) {
        val message = lazyMessage()
        throw IllegalStateException(message.toString())
    } else {
        return value
    }
}

/**
 * Throws an [IllegalStateException] with the given [message].
 * @sample samples.misc.Preconditions.failWithError
 */
@kotlin.internal.InlineOnly
public inline fun error(message: Any): Nothing = throw IllegalStateException(message.toString())

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 */
@npackage kotlin.collections

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

import kotlin.js.*
import primitiveArrayConcat
import withType
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun <T> Array<out T>.elementAt(index: Int): T {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun ByteArray.elementAt(index: Int): Byte {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @sample

```



```

return -1\n      return this@asList.indexOf(element)\n    }\n    override fun lastIndexOf(element: Char): Int
{\n      @Suppress("USELESS_CAST")\n      if ((element as Any?) !is Char) return -1\n      return this@asList.lastIndexOf(element)\n    }\n  }\n}\n\n/**\n * Returns `true` if the two specified arrays
are *deeply* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n *
If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself
on any nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with
the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0`
is not equal to `0.0`.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual
infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean {\n  return
this.contentDeepEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one
another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The
specified arrays are also considered deeply equal if both are `null`.\n * \n * If two corresponding elements are
nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is
undefined.\n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function.\n *
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin("1.4")\n@library("arrayDeepEquals")\npublic actual infix fun <T> Array<out
T>?.contentDeepEquals(other: Array<out T>?): Boolean {\n  definedExternally\n}\n\n/**\n * Returns a hash code
based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays
contains itself on any nesting level the behavior is undefined.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out
T>.contentDeepHashCode(): Int {\n  return this.contentDeepHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is
[List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the
behavior is undefined.\n */\n@SinceKotlin("1.4")\n@library("arrayDeepHashCode")\npublic actual fun <T>
Array<out T>?.contentDeepHashCode(): Int {\n  definedExternally\n}\n\n/**\n * Returns a string representation of
the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays
contains itself on any nesting level that reference\n * is rendered as `[...]` to prevent recursion.\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out
T>.contentDeepToString(): String {\n  return this.contentDeepToString()\n}\n\n/**\n * Returns a string
representation of the
contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays
contains itself on any nesting level that reference\n * is rendered as `[...]` to prevent recursion.\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n@SinceKotlin("1.4")\n@library("arrayDeepToString")\npublic actual fun <T> Array<out
T>?.contentDeepToString(): String {\n  definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays
are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n *
\n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers
it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
actual infix fun <T> Array<out
T>.contentEquals(other: Array<out T>): Boolean {\n  return this.contentEquals(other)\n}\n\n/**\n * Returns `true`
if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same
elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
ByteArray.contentEquals(other: ByteArray): Boolean {\n  return this.contentEquals(other)\n}\n\n/**\n * Returns

```

`true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the `[equals][Any.equals]` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual infix fun ShortArray.contentEquals(other: ShortArray): Boolean {
    return this.contentEquals(other)
}

```

Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the `[equals][Any.equals]` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual infix fun IntArray.contentEquals(other: IntArray): Boolean {
    return this.contentEquals(other)
}

```

Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the `[equals][Any.equals]` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual infix fun LongArray.contentEquals(other: LongArray): Boolean {
    return this.contentEquals(other)
}

```

Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the `[equals][Any.equals]` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual infix fun FloatArray.contentEquals(other: FloatArray): Boolean {
    return this.contentEquals(other)
}

```

Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the `[equals][Any.equals]` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean {
    return this.contentEquals(other)
}

```

Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the `[equals][Any.equals]` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean {
    return this.contentEquals(other)
}

```

Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the `[equals][Any.equals]` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual infix fun CharArray.contentEquals(other: CharArray): Boolean {
    return this.contentEquals(other)
}

```

Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the `[equals][Any.equals]` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```

@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun <T> Array<out T>?.contentEquals(other: Array<out T>?): Boolean {
    definedExternally
}

```

Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the `[equals][Any.equals]` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```

*\/n@SinceKotlin("1.4")\/n@library("arrayEquals")\/npublic actual infix fun
ByteArray?.contentEquals(other: ByteArray?): Boolean {\/n    definedExternally\/n}\/n\/n**\/n * Returns `true` if the
two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements
in the same order. The elements are compared for equality with the [equals][Any.equals] function. For
floating point numbers it means that `NaN` is equal to itself and -0.0 is not equal to 0.0.
*\/n@SinceKotlin("1.4")\/n@library("arrayEquals")\/npublic actual infix fun ShortArray?.contentEquals(other:
ShortArray?): Boolean {\/n    definedExternally\/n}\/n\/n**\/n * Returns `true` if the two specified arrays are
structurally equal to one another, i.e. contain the same number of the same elements in the same order.
* The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it
means that `NaN` is
equal to itself and -0.0 is not equal to 0.0.
*\/n@SinceKotlin("1.4")\/n@library("arrayEquals")\/npublic
actual infix fun IntArray?.contentEquals(other: IntArray?): Boolean {\/n    definedExternally\/n}\/n\/n**\/n * Returns
`true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the
same elements in the same order. The elements are compared for equality with the [equals][Any.equals]
function. For floating point numbers it means that `NaN` is equal to itself and -0.0 is not equal to 0.0.
*\/n@SinceKotlin("1.4")\/n@library("arrayEquals")\/npublic actual infix fun LongArray?.contentEquals(other:
LongArray?): Boolean {\/n    definedExternally\/n}\/n\/n**\/n * Returns `true` if the two specified arrays are
structurally equal to one another, i.e. contain the same number of the same elements in the same order.
* The elements are compared for equality with the [equals][Any.equals] function. For floating
point numbers it means that `NaN` is equal to itself and -0.0 is not equal to 0.0.
*\/n@SinceKotlin("1.4")\/n@library("arrayEquals")\/npublic actual infix fun FloatArray?.contentEquals(other:
FloatArray?): Boolean {\/n    definedExternally\/n}\/n\/n**\/n * Returns `true` if the two specified arrays are
structurally equal to one another, i.e. contain the same number of the same elements in the same order.
* The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it
means that `NaN` is equal to itself and -0.0 is not equal to 0.0.
*\/n@SinceKotlin("1.4")\/n@library("arrayEquals")\/npublic actual infix fun DoubleArray?.contentEquals(other:
DoubleArray?): Boolean {\/n    definedExternally\/n}\/n\/n**\/n * Returns `true` if the two specified arrays are
structurally equal to one another, i.e. contain the same number of the same elements in the same order.
* The elements are compared for equality with
the [equals][Any.equals] function. For floating point numbers it means that `NaN` is equal to itself and -0.0
is not equal to 0.0.
*\/n@SinceKotlin("1.4")\/n@library("arrayEquals")\/npublic actual infix fun
BooleanArray?.contentEquals(other: BooleanArray?): Boolean {\/n    definedExternally\/n}\/n\/n**\/n * Returns `true`
if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same
elements in the same order. The elements are compared for equality with the [equals][Any.equals]
function. For floating point numbers it means that `NaN` is equal to itself and -0.0 is not equal to 0.0.
*\/n@SinceKotlin("1.4")\/n@library("arrayEquals")\/npublic actual infix fun CharArray?.contentEquals(other:
CharArray?): Boolean {\/n    definedExternally\/n}\/n\/n**\/n * Returns a hash code based on the contents of this array
as if it is [List].
*\/n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\/n@SinceKotlin("1.1")\/n@DeprecatedSinceKotlin(hiddenSince
= "1.4")\/npublic actual fun <T> Array<out T>.contentHashCode(): Int {\/n    return
this.contentHashCode()\/n}\/n\/n**\/n * Returns a hash code based on the contents of this array as if it is [List].
*\/n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\/n@SinceKotlin("1.1")\/n@DeprecatedSinceKotlin(hiddenSince = "1.4")\/npublic actual fun
ByteArray.contentHashCode(): Int {\/n    return this.contentHashCode()\/n}\/n\/n**\/n * Returns a hash code based on
the contents of this array as if it is [List].
*\/n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation

```

```

warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
ShortArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on
the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince
= "1.4")\npublic actual fun IntArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n *
Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler
1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\npublic actual fun LongArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n *
Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler
1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\npublic actual fun FloatArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n *
Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler
1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince
= "1.4")\npublic actual fun DoubleArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n *
Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler
1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\npublic actual fun BooleanArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n *
Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler
1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\npublic actual fun CharArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n *
Returns a hash code based on the contents of this array as if it is [List].\n
*/\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun <T> Array<out
T>?.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n
* Returns a hash code based on the contents of this array as if it is [List].\n
*/\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun ByteArray?.contentHashCode(): Int {\n
    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*/\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun ShortArray?.contentHashCode(): Int {\n
    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*/\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun IntArray?.contentHashCode(): Int {\n
    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*/\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun LongArray?.contentHashCode(): Int {\n
    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*/\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic
actual fun FloatArray?.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on
the contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual
fun DoubleArray?.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the
contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun
BooleanArray?.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the
contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun
CharArray?.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the
contents of the specified array as if it is [List].\n */\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun <T>
Array<out T>.contentToString(): String {\n    return this.contentToString()\n}\n\n/**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n */\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic

```

```

actual fun ByteArray.contentToString(): String {\n  return this.contentToString()\n}\n\n/**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
actual
fun ShortArray.contentToString(): String {\n  return this.contentToString()\n}\n\n/**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
actual
fun IntArray.contentToString(): String {\n  return this.contentToString()\n}\n\n/**\n * Returns a string
representation of the contents of the specified
array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
FloatArray.contentToString(): String {\n  return this.contentToString()\n}\n\n/**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
actual
fun DoubleArray.contentToString(): String {\n  return this.contentToString()\n}\n\n/**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated("Use Kotlin compiler 1.4
to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
actual
fun BooleanArray.contentToString(): String {\n  return this.contentToString()\n}\n\n/**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
actual
fun CharArray.contentToString(): String {\n  return this.contentToString()\n}\n\n/**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun <T> Array<out T>?.contentToString():
String {\n  definedExternally\n}\n\n/**\n * Returns a string representation of the
contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun ByteArray?.contentToString(): String
{\n  definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun ShortArray?.contentToString(): String
{\n  definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun IntArray?.contentToString(): String {\n
definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if
it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun LongArray?.contentToString(): String
{\n  definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is

```

```
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun FloatArray?.contentToString(): String
{\n  definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun DoubleArray?.contentToString(): String
{\n  definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun BooleanArray?.contentToString():
String {\n  definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as
if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun CharArray?.contentToString(): String
{\n  definedExternally\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that
array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it
overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset
the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of
the subrange to copy, 0 by default.\n
* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this
array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange
doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the
[destination] array indices range.\n * \n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\npublic actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset:
Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {\n  arrayCopy(this, destination, destinationOffset,
startIndex, endIndex)\n  return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination]
array and returns that array.\n
* \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with
the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in
the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to
copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n
* \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is
out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\npublic
actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0,
endIndex: Int = size): ByteArray {\n  arrayCopy(this.unsafeCast<Array<Byte>>(),
destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n  return destination\n}\n\n/**\n
* Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the
same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n *
@param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to
copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n *
@param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is
out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that
index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```



[destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return

the [destination] array.\n

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {\n    arrayCopy(this.unsafeCast<Array<Double>>(), destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)\n    return
```

destination\n}\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of

this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {\n
```

```
    arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's
```

allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
```

```
    actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {\n        arrayCopy(this.unsafeCast<Array<Char>>(), destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)\n        return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
```

```
samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline fun <T> Array<out T>.copyOf(): Array<T> {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
```

```
samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun ByteArray.copyOfOf(): ByteArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
```

```
samples.collections.Arrays.CopyOfOperations.copyOf\n
```

```

*/\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun ShortArray.copyOf(): ShortArray {\n
return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n *
@sample samples.collections.Arrays.CopyOfOperations.copyOf\n
*/\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun IntArray.copyOf(): IntArray {\n
return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n *
@sample samples.collections.Arrays.CopyOfOperations.copyOf\n
*/\npublic actual fun LongArray.copyOf(): LongArray {\n
return withType("LongArray", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the
original array.\n * \n *
@sample samples.collections.Arrays.CopyOfOperations.copyOf\n
*/\npublic actual fun FloatArray.copyOf(): FloatArray {\n
return this.asDynamic().slice()\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n *
@sample samples.collections.Arrays.CopyOfOperations.copyOf\n
*/\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun DoubleArray.copyOf(): DoubleArray {\n
return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n *
@sample samples.collections.Arrays.CopyOfOperations.copyOf\n
*/\npublic actual fun BooleanArray.copyOf():
BooleanArray {\n
return withType("BooleanArray", this.asDynamic().slice())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n *
@sample samples.collections.Arrays.CopyOfOperations.copyOf\n
*/\npublic actual fun CharArray.copyOf(): CharArray {\n
return withType("CharArray",
this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given
[newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n *
- If [newSize]
is less than the size
of the original array, the copy array is truncated to the [newSize].\n *
- If [newSize] is greater than the size of the
original array, the extra elements in the copy array are filled with zero values.\n * \n *
@sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*/\npublic actual fun
ByteArray.copyOf(newSize: Int): ByteArray {\n
require(newSize >= 0) { "Invalid new array size: $newSize."
}\n
return fillFrom(this, ByteArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if
necessary.\n * \n *
- If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].\n *
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values.\n * \n *
@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*/\npublic
actual fun ShortArray.copyOf(newSize: Int): ShortArray {\n
require(newSize >= 0) { "Invalid new array size:
$newSize." }\n
return fillFrom(this, ShortArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the
original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values
if necessary.\n * \n *
- If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].\n *
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values.\n * \n *
@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*/\npublic actual fun IntArray.copyOf(newSize: Int): IntArray {\n
require(newSize >= 0) { "Invalid new array
size: $newSize." }\n
return fillFrom(this, IntArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of
the original array, resized to the given [newSize].\n * The copy is
either truncated or padded at the end with zero values if necessary.\n * \n *
- If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n *
- If [newSize] is greater than the size of the original
array, the extra elements in the copy array are filled with zero values.\n * \n *
@sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*/\npublic actual fun
LongArray.copyOf(newSize: Int): LongArray {\n
require(newSize >= 0) { "Invalid new array size: $newSize."
}\n
return withType("LongArray", arrayCopyResize(this, newSize, 0L))\n}\n\n/**\n * Returns new array which
is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end
with zero values if necessary.\n * \n *
- If [newSize] is less than the size of the original array, the copy array is
truncated to the [newSize].\n *
- If [newSize] is greater than the size of the original array, the extra elements in

```

the copy array are filled with zero values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^npublic actual fun

FloatArray.copyOf(newSize: Int): FloatArray {\n require(newSize >= 0) { \"Invalid new array size: \$newSize.\" }\n return fillFrom(this, FloatArray(newSize))\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^npublic actual fun

DoubleArray.copyOf(newSize: Int): DoubleArray {\n require(newSize >= 0) { \"Invalid new array size: \$newSize.\" }\n return fillFrom(this, DoubleArray(newSize))\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with `false` values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^npublic actual fun

BooleanArray.copyOf(newSize: Int): BooleanArray {\n require(newSize >= 0) { \"Invalid new array size: \$newSize.\" }\n return withType(\"BooleanArray\", arrayCopyResize(this, newSize, false))\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with null char (`\u0000`) values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\u0000`) values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^npublic actual fun

CharArray.copyOf(newSize: Int): CharArray {\n require(newSize >= 0) { \"Invalid new array size: \$newSize.\" }\n return withType(\"CharArray\", fillFrom(this, CharArray(newSize)))\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with `null` values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n \*^n@Suppress(\"ACTUAL\_WITHOUT\_EXPECT\")\npublic actual fun <T> Array<out T>.copyOf(newSize: Int): Array<T?> {\n require(newSize >= 0) { \"Invalid new array size: \$newSize.\" }\n return arrayCopyResize(this, newSize, null)\n}\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*^n@Suppress(\"ACTUAL\_WITHOUT\_EXPECT\")\npublic actual fun <T> Array<out T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*^npublic actual fun

ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException

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if [fromIndex] is greater than [toIndex].\n *\npublic actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex:
Int): ShortArray {\n  AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return
this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range
of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the
end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n *\npublic actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param
fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n
*\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic actual fun
LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return withType("LongArray",
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified
range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param
toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n *\npublic
actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic
actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive)
to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n
*\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic actual fun
BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return withType("BooleanArray",
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified
range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param
toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n *\npublic actual fun CharArray.copyOfRange(fromIndex:
Int, toIndex: Int): CharArray {\n  AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return
withType("CharArray", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange
with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by
default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n *\npublic actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {\n

```

```

AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange
with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by
default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element,
fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n *
@param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range
(exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less
than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is
greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\n

```

```

AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex]
is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n  this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Returns an array containing all
elements of the original array and then the given [element].\n *\n@Suppress("ACTUAL_WITHOUT_EXPECT",
"NOTHING_TO_INLINE")\npublic actual inline operator fun <T> Array<out T>.plus(element: T): Array<T> {\n
return this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the
original array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline
operator fun ByteArray.plus(element: Byte): ByteArray {\n  return plus(byteArrayOf(element))\n}\n\n/**\n *
Returns an array containing all elements of the original array and then the given [element].\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ShortArray.plus(element: Short):
ShortArray {\n  return plus(shortArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the
original array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline
operator fun IntArray.plus(element: Int): IntArray {\n  return plus(intArrayOf(element))\n}\n\n/**\n * Returns an
array containing all elements of the original array and then the given [element].\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun LongArray.plus(element: Long):
LongArray {\n  return plus(longArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the
original array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline
operator fun FloatArray.plus(element: Float): FloatArray {\n  return plus(floatArrayOf(element))\n}\n\n/**\n *
Returns an array containing all elements of the original array and then the given [element].\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun DoubleArray.plus(element:
Double): DoubleArray {\n  return plus(doubleArrayOf(element))\n}\n\n/**\n *
Returns an array containing all elements of the original array and then the given [element].\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun BooleanArray.plus(element:
Boolean): BooleanArray {\n  return plus(booleanArrayOf(element))\n}\n\n/**\n * Returns an array containing all
elements of the original array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline operator fun CharArray.plus(element: Char): CharArray {\n  return
plus(charArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then all
elements of the given [elements] collection.\n *\n@Suppress("ACTUAL_WITHOUT_EXPECT")\npublic actual
operator fun <T> Array<out T>.plus(elements: Collection<T>): Array<T> {\n  return arrayPlusCollection(this,
elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the
given [elements] collection.\n *\n@public actual
operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray {\n  return
fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing

```

all elements of the original array and then all elements of the given [elements] collection.

```

public actual
operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {
    return
    fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

```

public actual
operator fun IntArray.plus(elements: Collection<Int>): IntArray {
    return fillFromCollection(this.copyOf(size +
elements.size), this.size, elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

```

public actual operator fun LongArray.plus(elements:
Collection<Long>): LongArray
{
    return arrayPlusCollection(this, elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

```

public actual operator fun
FloatArray.plus(elements: Collection<Float>): FloatArray {
    return fillFromCollection(this.copyOf(size +
elements.size), this.size, elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

```

public actual operator fun DoubleArray.plus(elements:
Collection<Double>): DoubleArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size,
elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

```

public actual operator fun BooleanArray.plus(elements: Collection<Boolean>):
BooleanArray {
    return arrayPlusCollection(this, elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

```

public actual
operator fun CharArray.plus(elements: Collection<Char>): CharArray {
    return
    fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")
public actual inline operator
fun <T> Array<out T>.plus(elements: Array<out T>): Array<T> {
    return
    this.asDynamic().concat(elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline
operator fun ByteArray.plus(elements: ByteArray): ByteArray {
    return primitiveArrayConcat(this,
elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline
operator fun ShortArray.plus(elements: ShortArray): ShortArray {
    return primitiveArrayConcat(this,
elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun
IntArray.plus(elements: IntArray): IntArray {
    return primitiveArrayConcat(this, elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun LongArray.plus(elements:
LongArray): LongArray {
    return primitiveArrayConcat(this, elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual
inline operator fun FloatArray.plus(elements: FloatArray): FloatArray {
    return primitiveArrayConcat(this,
elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun
DoubleArray.plus(elements: DoubleArray): DoubleArray {
    return primitiveArrayConcat(this,
elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun
BooleanArray.plus(elements: BooleanArray): BooleanArray {
    return primitiveArrayConcat(this,
elements)
}

```

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun
CharArray.plus(elements: CharArray): CharArray {

```



```

*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ShortArray.sort(fromIndex: Int = 0, toIndex:
Int = size): Unit {\n  AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ShortArray>()\n  subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<IntArray>()\n
subarray.sort()\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  sortArrayWith(this.unsafeCast<Array<Long>>(),
fromIndex, toIndex, naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex
the start of the range (inclusive) to sort, 0 by default.\n * @param
toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<FloatArray>()\n  subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than
zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is
greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<DoubleArray>()\n  subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  val subarray =

```

```

this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<CharArray>()\n  subarray.sort()\n}\n\n/**\n * Sorts the
array in-place according to the order specified by the given [comparison] function.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) -> Int):
Unit {\n  asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by
the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sort(noinline
comparison: (a: Short, b: Short) -> Int): Unit {\n  asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-
place according to the order specified
by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sort(noinline
comparison: (a: Int, b: Int) -> Int): Unit {\n  asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place
according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.sort(noinline comparison: (a: Long, b: Long) -> Int): Unit {\n
  asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sort(noinline comparison: (a:
Float, b: Float) -> Int): Unit {\n  asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according
to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> Int): Unit {\n
  asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int):
Unit {\n  asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by
the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to
each other after sorting.\n */\npublic actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit
{\n  if (size > 1) sortArrayWith(this, comparator)\n}\n\n/**\n * Sorts a range in the array in-place with the given
[comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex
the end of the range (exclusive) to sort, size of this array by default.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size):
Unit {\n  AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  sortArrayWith(this, fromIndex, toIndex,
comparator)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n
*/\npublic actual fun ByteArray.toTypedArray(): Array<Byte> {\n  return js("[]").slice.call(this)\n}\n\n/**\n *
Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun
ShortArray.toTypedArray(): Array<Short> {\n  return js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed*
object array containing all
of the elements of this primitive array.\n */\npublic actual fun IntArray.toTypedArray(): Array<Int> {\n  return
js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n */\npublic actual fun LongArray.toTypedArray(): Array<Long> {\n  return
js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n */\npublic actual fun FloatArray.toTypedArray(): Array<Float> {\n  return
js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n */\npublic actual fun DoubleArray.toTypedArray(): Array<Double> {\n  return
js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n */\npublic actual fun BooleanArray.toTypedArray(): Array<Boolean> {\n  return
js("[]").slice.call(this)\n}\n\n/**\n * Returns a
*typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun
CharArray.toTypedArray(): Array<Char> {\n  return Array(size) { index -> this[index] }\n}\n\n"/**\n * Copyright

```



```

*  

@kotlin.internal.InlineOnly  

public inline fun <T> compareByDescending(crossinline selector: (T) ->  

Comparable<*>?): Comparator<T> =\n    Comparator { a, b -> compareValuesBy(b, a, selector) }\n\n/**  

Creates a descending comparator using the [selector] function to transform values being compared and then  

applying\n * the specified [comparator] to compare transformed values.\n * Note that an order of [comparator] is  

reversed by this wrapper.\n *  

@sample  

samples.comparisons.Comparisons.compareByDescendingWithComparator  

  

*  

@kotlin.internal.InlineOnly  

public inline fun <T, K> compareByDescending(comparator: Comparator<in K>,  

crossinline selector: (T) -> K): Comparator<T> =\n    Comparator { a, b -> compareValuesBy(b, a, comparator,  

selector) }\n\n/**  

Creates a comparator comparing values after the primary comparator defined them equal. It  

uses\n * the function to transform value to a [Comparable] instance  

for comparison.\n *  

@sample samples.comparisons.Comparisons.thenBy  

  

*  

@kotlin.internal.InlineOnly  

public inline fun <T> Comparator<T>.thenBy(crossinline selector: (T) ->  

Comparable<*>?): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare =  

this@thenBy.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(a, b,  

selector)\n    }\n\n/**  

Creates a comparator comparing values after the primary comparator defined them equal.  

It uses\n * the [selector] function to transform values and then compares them with the given [comparator].\n *  

@sample samples.comparisons.Comparisons.thenByWithComparator  

  

*  

@kotlin.internal.InlineOnly  

public  

inline fun <T, K> Comparator<T>.thenBy(comparator: Comparator<in K>, crossinline selector: (T) -> K):  

Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenBy.compare(a, b)\n        if  

(previousCompare != 0) previousCompare else compareValuesBy(a, b, comparator, selector)\n    }\n\n/**  

Creates a descending comparator using the primary comparator and\n * the function to transform  

value to a [Comparable] instance for comparison.\n *  

@sample  

samples.comparisons.Comparisons.thenByDescending  

  

*  

@kotlin.internal.InlineOnly  

public inline fun <T>  

Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a, b)\n        if  

(previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\n    }\n\n/**  

Creates a  

descending comparator comparing values after the primary comparator defined them equal. It uses\n * the [selector]  

function to transform values and then compares them with the given [comparator].\n *  

@sample  

samples.comparisons.Comparisons.thenByDescendingWithComparator  

  

*  

@kotlin.internal.InlineOnly  

public  

inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline  

selector: (T) -> K): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare =  

this@thenByDescending.compare(a, b)\n        if (previousCompare != 0) previousCompare else  

compareValuesBy(b, a, comparator, selector)\n    }\n\n\n/**  

Creates a comparator using the primary comparator  

and function to calculate a result of comparison.\n *  

@sample  

samples.comparisons.Comparisons.thenComparator  

  

*  

@kotlin.internal.InlineOnly  

public inline fun <T>  

Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =\n    Comparator { a,  

b ->\n        val previousCompare = this@thenComparator.compare(a, b)\n        if (previousCompare != 0)  

previousCompare else comparison(a, b)\n    }\n\n/**  

Combines this comparator and the given [comparator] such  

that the latter is applied only\n * when the former considered values equal.\n *  

@sample  

samples.comparisons.Comparisons.then  

  

*  

public infix fun <T> Comparator<T>.then(comparator:  

Comparator<in  

T>): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@then.compare(a, b)\n        if  

(previousCompare != 0) previousCompare else comparator.compare(a, b)\n    }\n\n/**  

Combines this  

comparator and the given [comparator] such that the latter is applied only\n * when the former considered values  

equal.\n *  

@sample samples.comparisons.Comparisons.thenDescending  

  

*  

public infix fun <T>  

Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =\n    Comparator<T> { a, b -  

>\n        val previousCompare = this@thenDescending.compare(a, b)\n        if (previousCompare != 0)  

previousCompare else comparator.compare(b, a)\n    }\n\n// Not so useful without type inference for receiver of

```

```

expression\n/**\n * Extends the given [comparator] of non-nullable values to a comparator of nullable values\n *
considering `null` value less than any other value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n *\npublic
fun <T : Any> nullsFirst(comparator: Comparator<in T>): Comparator<T?> =\n Comparator { a, b ->\n when
{\n a === b -> 0\n a == null -> -1\n b == null -> 1\n else -> comparator.compare(a, b)\n
}\n }\n}\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value less than
any other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> =
nullsFirst(naturalOrder())\n\n/**\n * Extends the given [comparator] of non-nullable values to a comparator of
nullable values\n * considering `null` value greater than any other value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n *\npublic fun <T : Any>
nullsLast(comparator: Comparator<in T>): Comparator<T?> =\n Comparator { a, b ->\n when {\n a
=== b -> 0\n a == null ->
1\n b == null -> -1\n else -> comparator.compare(a, b)\n }\n }\n}\n/**\n * Provides a comparator
of nullable [Comparable] values\n * considering `null` value greater than any other value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastComparator\n *\n@kotlin.internal.InlineOnly\npublic inline fun
<T : Comparable<T>> nullsLast(): Comparator<T?> = nullsLast(naturalOrder())\n\n/**\n * Returns a comparator
that compares [Comparable] objects in natural order.\n *\n * @sample
samples.comparisons.Comparisons.naturalOrderComparator\n *\npublic fun <T : Comparable<T>> naturalOrder():
Comparator<T> = @Suppress(\\"UNCHECKED_CAST\\") (NaturalOrderComparator as Comparator<T>)\n\n/**\n *
Returns a comparator that compares [Comparable] objects in reversed natural order.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n *\npublic fun <T : Comparable<T>>
reverseOrder(): Comparator<T> = @Suppress(\\"UNCHECKED_CAST\\") (ReverseOrderComparator
as Comparator<T>)\n\n/**\n * Returns a comparator that imposes the reverse ordering of this comparator.\n *\n *
@sample samples.comparisons.Comparisons.reversed\n *\npublic fun <T> Comparator<T>.reversed():
Comparator<T> = when (this) {\n is ReversedComparator -> this.comparator\n NaturalOrderComparator ->
@Suppress(\\"UNCHECKED_CAST\\") (ReverseOrderComparator as Comparator<T>)\n
ReverseOrderComparator -> @Suppress(\\"UNCHECKED_CAST\\") (NaturalOrderComparator as
Comparator<T>)\n else -> ReversedComparator(this)\n}\n\nprivate class ReversedComparator<T>(public val
comparator: Comparator<T>) : Comparator<T> {\n override fun compare(a: T, b: T): Int = comparator.compare(b,
a)\n @Suppress(\\"VIRTUAL_MEMBER_HIDDEN\\")\n fun reversed(): Comparator<T> =
comparator\n}\n\nprivate object NaturalOrderComparator : Comparator<Comparable<Any>> {\n override fun
compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)\n
@Suppress(\\"VIRTUAL_MEMBER_HIDDEN\\")\n
fun reversed(): Comparator<Comparable<Any>> = ReverseOrderComparator\n}\n\nprivate object
ReverseOrderComparator : Comparator<Comparable<Any>> {\n override fun compare(a: Comparable<Any>, b:
Comparable<Any>): Int = b.compareTo(a)\n @Suppress(\\"VIRTUAL_MEMBER_HIDDEN\\")\n fun reversed():
Comparator<Comparable<Any>> = NaturalOrderComparator\n}\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\\"StandardKt\\")\npackage kotlin\n\nimport
kotlin.contracts.*\n\n/**\n * An exception is thrown to indicate that a method body remains to be implemented.\n
*\n *\npublic class NotImplementedError(message: String = \\"An operation is not implemented.\") :
Error(message)\n\n/**\n * Always throws [NotImplementedError] stating that operation is not implemented.\n
*\n *\n\n@kotlin.internal.InlineOnly\npublic inline fun TODO(): Nothing = throw NotImplementedError()\n\n/**\n *
Always throws [NotImplementedError] stating that operation is not implemented.\n *\n * @param reason a string
explaining why the implementation is missing.\n *\n\n@kotlin.internal.InlineOnly\npublic inline fun TODO(reason:
String): Nothing = throw NotImplementedError(\\"An operation is not implemented: $reason\\")\n\n\n\n/**\n * Calls

```

the specified function [block] and returns its result.\n \*\n \* For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n

```
*\n@kotlin.internal.InlineOnly\npublic inline fun <R> run(block: () -> R): R {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return block()\n}\n\n/**\n * Calls the specified function [block] with `this` value as its receiver and returns its result.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n *\n * @kotlin.internal.InlineOnly\npublic inline fun <T, R> T.run(block: T.() -> R): R {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return block()\n}\n\n/**\n * Calls the specified function [block] with the given [receiver] as its receiver and returns its result.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).\n *\n * @kotlin.internal.InlineOnly\npublic inline fun <T, R> with(receiver: T, block: T.() -> R): R {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return receiver.block()\n}\n\n/**\n * Calls the specified function [block] with `this` value as its receiver and returns `this` value.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).\n *\n * @kotlin.internal.InlineOnly\npublic inline fun <T> T.apply(block: T.() -> Unit): T {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    block()\n    return this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and returns `this` value.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).\n *\n * @kotlin.internal.InlineOnly\n@SinceKotlin("1.1")\npublic inline fun <T> T.also(block: (T) -> Unit): T {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    block(this)\n    return this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and returns its result.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).\n *\n * @kotlin.internal.InlineOnly\npublic inline fun <T, R> T.let(block: (T) -> R): R {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return block(this)\n}\n\n/**\n * Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).\n *\n * @kotlin.internal.InlineOnly\n@SinceKotlin("1.1")\npublic inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {\n    contract {\n        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n    }\n    return if (predicate(this)) this else null\n}\n\n/**\n * Returns `this` value if it _does not_ satisfy the given [predicate] or `null`, if it does.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).\n *\n * @kotlin.internal.InlineOnly\n@SinceKotlin("1.1")\npublic inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {\n    contract {\n        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n    }\n    return if (!predicate(this)) this else null\n}\n\n/**\n * Executes the given function [action] specified number of [times].\n *\n * A zero-based index of current iteration is passed as a parameter to [action].\n *\n * @sample samples.misc.ControlFlow.repeat\n *\n * @kotlin.internal.InlineOnly\npublic inline fun repeat(times: Int, action: (Int) -> Unit) {\n    contract { callsInPlace(action) }\n\n    for (index in 0 until times) {\n        action(index)\n    }\n}\n\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n * @package kotlin.comparisons\n *\n * / NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n * / See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n *\n * /\nimport kotlin.js.*\n\n/**\n * Returns the greater of two values.\n *\n * If values are equal, returns the first one.\n *\n * @kotlin.internal.InlineOnly\n@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n
```

```

*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Byte, b: Byte): Byte {\n    return Math.max(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Short, b: Short): Short {\n    return Math.max(a.toInt(),
b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Int, b: Int): Int {\n    return
Math.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.1")\n@Suppress("DEPRECATION_ERROR", "NOTHING_TO_INLINE")\npublic actual
inline fun maxOf(a: Long, b: Long): Long {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two
values.\n * \n * If either value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Float, b: Float): Float {\n    return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two
values.\n * \n * If either value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Double, b: Double): Double {\n    return Math.max(a, b)\n}\n\n/**\n * Returns the greater of
three values.\n * \n * If there are multiple equal maximal values, returns the first of them.\n
*\n@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>>
maxOf(a: T, b: T, c: T): T {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {\n    return Math.max(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Short, b: Short, c: Short): Short {\n    return Math.max(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Int, b: Int, c: Int): Int {\n    return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater of three
values.\n * \n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun
maxOf(a: Long, b: Long, c: Long): Long {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of
three values.\n * \n * If any value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Float, b: Float, c: Float): Float {\n    return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater
of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Double, b: Double, c: Double): Double {\n    return Math.max(a, b, c)\n}\n\n/**\n * Returns the
greater of the given values.\n * \n * If there are multiple equal maximal values, returns the first of them.\n
*\n@SinceKotlin("1.4")\npublic actual fun <T : Comparable<T>> maxOf(a: T, vararg other: T): T {\n    var max
= a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater
of the given values.\n * \n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Byte, vararg other: Byte): Byte {\n
var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given
values.\n * \n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Short, vararg other: Short): Short {\n    var max =
a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Int, vararg other: Int): Int {\n    var max = a\n    for (e in
other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Long, vararg other: Long): Long {\n    var max = a\n    for (e
in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If any
value is `NaN`, returns `NaN`.\n * \n@SinceKotlin("1.4")\npublic actual fun

```

```

maxOf(a: Float, vararg other: Float): Float {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}
Returns the greater of the given values.
If any value is NaN, returns NaN.

@SinceKotlin("1.4")
public actual fun maxOf(a: Double, vararg other: Double): Double {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}
Returns the smaller of two values.
If values are equal, returns the first one.

@SinceKotlin("1.1")
public actual fun <T : Comparable<T>>
minOf(a: T, b: T): T {
    return if (a <= b) a else b
}
Returns the smaller of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual
inline fun minOf(a: Byte, b: Byte): Byte {
    return Math.min(a.toInt(), b.toInt()).unsafeCast<Byte>()
}
Returns the smaller of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public
actual inline fun minOf(a: Short, b: Short): Short {
    return Math.min(a.toInt(),
b.toInt()).unsafeCast<Short>()
}
Returns the smaller of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual
inline fun minOf(a: Int, b: Int): Int {
    return Math.min(a, b)
}
Returns the smaller of two values.

@SinceKotlin("1.1")
@Suppress("DEPRECATION_ERROR", "NOTHING_TO_INLINE")
public actual
inline fun minOf(a: Long, b: Long): Long {
    return if (a <= b) a else b
}
Returns the smaller of two
values.
If either value is NaN, returns NaN.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual
inline fun minOf(a: Float, b: Float): Float {
    return Math.min(a, b)
}
Returns the smaller of two
values.
If either value is NaN, returns NaN.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public
actual inline fun minOf(a: Double, b: Double): Double {
    return Math.min(a, b)
}
Returns the
smaller of three values.
If there are multiple equal minimal values, returns the first of them.

@SinceKotlin("1.1")
public actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {
    return minOf(a,
minOf(b, c))
}
Returns the smaller of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual
inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {
    return Math.min(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Byte>()
}
Returns the smaller of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual
inline fun minOf(a: Short, b: Short, c: Short): Short {
    return Math.min(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Short>()
}
Returns
the smaller of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual
inline fun minOf(a: Int, b: Int, c: Int): Int {
    return Math.min(a, b, c)
}
Returns the smaller of three
values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Long, b: Long,
c: Long): Long {
    return minOf(a, minOf(b, c))
}
Returns the smaller of three values.
If any
value is NaN, returns NaN.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual
inline fun minOf(a: Float, b: Float, c: Float): Float {
    return Math.min(a, b, c)
}
Returns the smaller
of three values.
If any value is NaN, returns NaN.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual
inline fun minOf(a: Double, b: Double, c: Double): Double {
    return Math.min(a,
b, c)
}
Returns the smaller of the given values.
If there are multiple equal minimal values,
returns the first of them.

@SinceKotlin("1.4")
public actual fun <T : Comparable<T>> minOf(a: T, vararg
other: T): T {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}
Returns the
smaller of the given values.

@SinceKotlin("1.4")
public actual fun minOf(a: Byte, vararg other: Byte): Byte
{
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}
Returns the smaller of the
given values.

@SinceKotlin("1.4")
public actual fun minOf(a: Short, vararg other: Short): Short {
    var

```

```

min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given
values.\n */\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Int, vararg other: Int): Int {\n var min = a\n for
(e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns
the smaller of the given values.\n */\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Long, vararg other: Long):
Long {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of
the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin("1.4")\npublic actual fun
minOf(a: Float, vararg other: Float): Float {\n var min = a\n for (e in other) min = minOf(min, e)\n return
min\n}\n\n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n
*/\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Double, vararg other: Double): Double {\n var min = a\n
for (e in other) min = minOf(min, e)\n return min\n}\n\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\nimport
kotlin.experimental.*\n\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@
SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class ULong @PublishedApi internal
constructor(@PublishedApi internal val data: Long) : Comparable<ULong> {\n\n companion object {\n /**\n
* A constant holding the minimum value an instance of ULong can have.\n */\n public const val
MIN_VALUE: ULong = ULong(0)\n /**\n * A constant holding the maximum value an instance of
ULong can have.\n */\n public const val MAX_VALUE: ULong = ULong(-1)\n /**\n * The
number of bytes used to represent an instance of ULong in a binary form.\n */\n public const val
SIZE_BYTES: Int = 8\n /**\n * The number of bits used to represent an instance of ULong in a binary
form.\n */\n public const val SIZE_BITS: Int = 64\n }\n\n /**\n * Compares
this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a
negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UByte): Int =
this.compareTo(other.toULong())\n\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
compareTo(other: UShort): Int = this.compareTo(other.toULong())\n\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n
*/\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UInt): Int =
this.compareTo(other.toULong())\n\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
@Suppress("OVERRIDE_BY_INLINE")\n public override inline operator fun compareTo(other: ULong): Int =
ulongCompare(this.data, other.data)\n\n /**\n Adds the other value to this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())\n
/**\n Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other:
UShort): ULong = this.plus(other.toULong())\n\n /**\n Adds the other value to this value. */\n
@kotlin.internal.InlineOnly\n public
inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())\n\n /**\n Adds the other value to this value.
*/\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: ULong): ULong =
ULong(this.data.plus(other.data))\n\n /**\n Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): ULong =
this.minus(other.toULong())\n\n /**\n Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort): ULong =
this.minus(other.toULong())\n\n /**\n Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): ULong =

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this.minus(other.toULong())\n /** Subtracts the other value from this value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\n /** Multiplies
this value by
the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): ULong =
this.times(other.toULong())\n /** Multiplies this value by the other value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UShort): ULong = this.times(other.toULong())\n /** Multiplies this value
by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): ULong =
this.times(other.toULong())\n /** Multiplies this value by the other value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: ULong): ULong = ULong(this.data.times(other.data))\n /** Divides this
value by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): ULong
= this.div(other.toULong())\n /** Divides this value by the other value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UShort): ULong = this.div(other.toULong())\n
/** Divides this value by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun
div(other: UInt): ULong = this.div(other.toULong())\n /** Divides this value by the other value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong = ulongDivide(this, other)\n\n
/** Calculates the remainder of dividing this value by the other value. *\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())\n /** Calculates the remainder of
dividing this value by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other:
UShort): ULong = this.rem(other.toULong())\n /** Calculates the remainder of dividing this value by the other
value. *\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): ULong =
this.rem(other.toULong())\n /** Calculates the remainder of dividing this
value by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong):
ULong = ulongRemainder(this, other)\n\n /** Increments this value. *\n @kotlin.internal.InlineOnly\n public
inline operator fun inc(): ULong = ULong(data.inc())\n /** Decrements this value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun dec(): ULong = ULong(data.dec())\n\n /** Creates a
range from this value to the specified [other] value. *\n @kotlin.internal.InlineOnly\n public inline operator fun
rangeTo(other: ULong): ULongRange = ULongRange(this, other)\n\n /** Shifts this value left by the [bitCount]
number of bits. *\n @kotlin.internal.InlineOnly\n public inline infix fun shl(bitCount: Int): ULong =
ULong(data shl bitCount)\n /** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits
with zeros. *\n @kotlin.internal.InlineOnly\n public inline infix fun shr(bitCount: Int): ULong
= ULong(data ushr bitCount)\n /** Performs a bitwise AND operation between the two values. *\n
@kotlin.internal.InlineOnly\n public inline infix fun and(other: ULong): ULong = ULong(this.data and
other.data)\n /** Performs a bitwise OR operation between the two values. *\n @kotlin.internal.InlineOnly\n
public inline infix fun or(other: ULong): ULong = ULong(this.data or other.data)\n /** Performs a bitwise XOR
operation between the two values. *\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: ULong):
ULong = ULong(this.data xor other.data)\n /** Inverts the bits in this value. *\n @kotlin.internal.InlineOnly\n
public inline fun inv(): ULong = ULong(data.inv())\n\n /**\n * Converts this [ULong] value to [Byte].\n *\n
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n
* the same numerical value as this `ULong`.\n *\n
* The resulting `Byte` value is represented
by the least significant 8 bits of this `ULong` value.\n
* Note that the resulting `Byte` value may be negative.\n
*\n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data.toByte()\n /**\n
* Converts this
[ULong] value to [Short].\n
*\n
* If this value is less than or equals to [Short.MAX_VALUE], the resulting
`Short` value represents\n
* the same numerical value as this `ULong`.\n
*\n
* The resulting `Short` value is
represented by the least significant 16 bits of this `ULong` value.\n
* Note that the resulting `Short` value may be
negative.\n
*\n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data.toShort()\n /**\n
*
Converts this [ULong] value to [Int].\n
*\n
* If this value is less than or equals to [Int.MAX_VALUE], the
resulting `Int` value represents\n
* the same numerical value as this `ULong`.\n
*\n
* The resulting `Int`
value is represented by the

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least significant 32 bits of this `ULong` value.\n * Note that the resulting `Int` value may be negative.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data.toInt()\n /**\n * Converts this [ULong]
value to [Long].\n *\n * If this value is less than or equals to [Long.MAX_VALUE], the resulting `Long` value
represents\n * the same numerical value as this `ULong`. Otherwise the result is negative.\n *\n * The
resulting `Long` value has the same binary representation as this `ULong` value.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data\n /**\n * Converts this [ULong] value
to [UByte].\n *\n * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value
represents\n * the same numerical value as this `ULong`. \n *\n * The resulting `UByte` value is represented
by the least significant 8 bits of this `ULong` value.\n */\n @kotlin.internal.InlineOnly\n
public inline fun toUByte(): UByte = data.toUByte()\n /**\n * Converts this [ULong] value to [UShort].\n
*\n * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n *
the same numerical value as this `ULong`. \n *\n * The resulting `UShort` value is represented by the least
significant 16 bits of this `ULong` value.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUShort():
UShort = data.toUShort()\n /**\n * Converts this [ULong] value to [UInt].\n *\n * If this value is less than
or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\n * the same numerical value as this
`ULong`. \n *\n * The resulting `UInt` value is represented by the least significant 32 bits of this `ULong`
value.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = data.toUInt()\n /** Returns this
value. */\n @kotlin.internal.InlineOnly\n
public inline fun toULong(): ULong = this\n /**\n * Converts this [ULong] value to [Float].\n *\n *
The resulting value is the closest `Float` to this `ULong` value.\n * In case when this `ULong` value is exactly
between two `Float`s,\n * the one with zero at least significant bit of mantissa is selected.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toDouble().toFloat()\n /**\n * Converts
this [ULong] value to [Double].\n *\n * The resulting value is the closest `Double` to this `ULong` value.\n *
In case when this `ULong` value is exactly between two `Double`s,\n * the one with zero at least significant bit of
mantissa is selected.\n */\n @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double =
ulongToDouble(data)\n public override fun toString(): String = ulongToString(data)\n /**\n * Converts
this [Byte] value to [ULong].\n *\n * If this value
is positive, the resulting `ULong` value represents the same numerical value as this `Byte`. \n *\n * The least
significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value,\n * whereas the most
significant 56 bits are filled with the sign bit of this value.\n
*/\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Byte.toULong(): ULong = ULong(this.toLong())\n /**\n * Converts this [Short] value to [ULong].\n *\n * If this
value is positive, the resulting `ULong` value represents the same numerical value as this `Short`. \n *\n * The least
significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value,\n * whereas the most
significant 48 bits are filled with the sign bit of this value.\n
*/\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Short.toULong(): ULong = ULong(this.toLong())\n /**\n * Converts this [Int] value to
[ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this
`Int`. \n *\n * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value,\n
* whereas the most significant 32 bits are filled with the sign bit of this value.\n
*/\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Int.toULong(): ULong = ULong(this.toLong())\n /**\n * Converts this [Long] value to [ULong].\n *\n * If this value
is positive, the resulting `ULong` value represents the same numerical value as this `Long`. \n *\n * The resulting
`ULong` value has the same binary representation as this `Long` value.\n
*/\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Long.toULong(): ULong = ULong(this)\n /**\n * Converts this [Float] value to [ULong].\n *\n * The fractional
part, if any, is rounded down towards zero.\n * Returns zero
*/

```

```

if this `Float` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
Float.toULong(): ULong = doubleToULong(this.toDouble())
/*
 * Converts this [Double] value to [ULong].
 *
 * The fractional part, if any, is rounded down towards zero.
 * Returns zero if this `Double` value is negative or
 * `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
Double.toULong(): ULong = doubleToULong(this)
"
/*
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
 * Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be
 * found in the license/LICENSE.txt file.
*/
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")
package
kotlin.collections
// NOTE: THIS
// FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
// https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
import kotlin.random.*
import
kotlin.ranges.contains
import kotlin.ranges.reversed
/*
 * Returns 1st *element* from the list.
 *
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 1.
*/
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component1(): T {
    return
    get(0)
}
/*
 * Returns 2nd *element* from the list.
 *
 * Throws an [IndexOutOfBoundsException] if the
 * size of this list is less than 2.
*/
@kotlin.internal.InlineOnly
public inline operator fun <T>
List<T>.component2(): T {
    return get(1)
}
/*
 * Returns 3rd *element* from the list.
 *
 * Throws an
 * [IndexOutOfBoundsException] if the size of this list is less than 3.
*/
@kotlin.internal.InlineOnly
public inline
operator fun <T> List<T>.component3(): T {
    return get(2)
}
/*
 * Returns 4th *element*
 * from the list.
 *
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 4.
*/
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component4(): T {
    return
    get(3)
}
/*
 * Returns 5th *element* from the list.
 *
 * Throws an [IndexOutOfBoundsException] if the
 * size of this list is less than 5.
*/
@kotlin.internal.InlineOnly
public inline operator fun <T>
List<T>.component5(): T {
    return get(4)
}
/*
 * Returns `true` if [element] is found in the collection.
*/
public operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {
    if
    (this is Collection)
        return contains(element)
    return indexOf(element) >= 0
}
/*
 * Returns an
 * element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this
 * collection.
 *
 * @sample samples.collections.Collections.Elements.elementAt
*/
public fun <T>
Iterable<T>.elementAt(index:
Int): T {
    if (this is List)
        return get(index)
    return elementAtOrElse(index) { throw
    IndexOutOfBoundsException("Collection doesn't contain element at index $index.") }
}
/*
 * Returns an
 * element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this list.
 *
 * @sample samples.collections.Collections.Elements.elementAt
*/
@kotlin.internal.InlineOnly
public
inline fun <T> List<T>.elementAt(index: Int): T {
    return get(index)
}
/*
 * Returns an element at the
 * given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this collection.
 *
 * @sample samples.collections.Collections.Elements.elementAtOrElse
*/
public fun <T>
Iterable<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {
    if (this is List)
        return
        this.getOrElse(index, defaultValue)
    if (index < 0)
        return defaultValue(index)
    val iterator = iterator()
    var count = 0
    while (iterator.hasNext()) {
        val element = iterator.next()
        if (index == count++)
            return element
    }
    return defaultValue(index)
}
/*
 * Returns an element at the given [index] or the
 * result of calling the [defaultValue] function if the [index] is out of bounds of this list.
 *
 * @sample
 * samples.collections.Collections.Elements.elementAtOrElse
*/
@kotlin.internal.InlineOnly
public inline fun
<T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {
    return if (index >= 0 && index <=
    lastIndex) get(index) else defaultValue(index)
}
/*
 * Returns an element at the given [index] or `null` if the
 * [index] is out of bounds of this collection.
 *
 * @sample
 * samples.collections.Collections.Elements.elementAtOrNull
*/
public fun <T>

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Iterable<T>.elementAtOrNull(index: Int): T? {\n  if (this is List)\n    return this.getOrNull(index)\n  if (index < 0)\n    return null\n  val iterator = iterator()\n  var count = 0\n  while (iterator.hasNext()) {\n    val element = iterator.next()\n    if (index == count++)\n      return element\n  }\n  return null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n */\n * @sample\n\nsamples.collections.Collections.Elements.elementAtOrNull\n\n*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAtOrNull(index: Int): T? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n * @sample\n\nsamples.collections.Collections.Elements.find\n\n*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.find(predicate: (T) -> Boolean): T? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n * @sample\n\nsamples.collections.Collections.Elements.find\n\n*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.findLast(predicate: (T) -> Boolean): T? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n * @sample\n\nsamples.collections.Collections.Elements.find\n\n*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.findLast(predicate: (T) -> Boolean): T? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n */\n * @throws [NoSuchElementException] if the collection is empty.\n */\n\npublic fun <T> Iterable<T>.first(): T {\n  when (this) {\n    is List -> return this.first()\n    else -> {\n      val iterator = iterator()\n      if (!iterator.hasNext())\n        throw\n        NoSuchElementException("Collection is empty.")\n      return iterator.next()\n    }\n  }\n}\n\n/**\n * Returns first element.\n */\n * @throws [NoSuchElementException] if the list is empty.\n */\n\npublic fun <T> List<T>.first(): T {\n  if (isEmpty())\n    throw NoSuchElementException("List is empty.")\n  return this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate].\n */\n * @throws [NoSuchElementException] if no such element is found.\n */\n\npublic inline fun <T> Iterable<T>.first(predicate: (T) -> Boolean): T {\n  for (element in this) if (predicate(element)) return element\n  throw\n  NoSuchElementException("Collection contains no element matching the predicate.")\n}\n\n/**\n * Returns the first element, or `null` if the collection is empty.\n */\n\npublic fun <T> Iterable<T>.firstOrNull(): T? {\n  when (this) {\n    is List -> {\n      if (isEmpty())\n        return null\n      else\n        return this[0]\n    }\n    else -> {\n      val iterator = iterator()\n      if (!iterator.hasNext())\n        return null\n      return iterator.next()\n    }\n  }\n}\n\n/**\n * Returns the first element, or `null` if the list is empty.\n */\n\npublic fun <T> List<T>.firstOrNull(): T? {\n  return if (isEmpty())\n    null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\n\npublic inline fun <T> Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n  for (element in this) if (predicate(element)) return element\n  return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n */\n\n*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.getOrNull(index: Int, defaultValue: (Int) -> T): T {\n  return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n */\n * @sample\n\nsamples.collections.Collections.Elements.getOrNull\n\n*/\n\npublic fun <T> List<T>.getOrNull(index: Int): T? {\n  return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the collection does not contain element.\n */\n\n*/\n\n@kotlin.internal.OnlyInputTypes T>\npublic fun <T> Iterable<T>.indexOf(element: T): Int {\n  if (this is List) return this.indexOf(element)\n  var index = 0\n  for (item in this) {\n    checkIndexOverflow(index)\n    if (element == item)\n      return index\n    index++\n  }\n  return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the list does not contain element.\n */\n\n*/\n\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.indexOf(element: T): Int {\n  return indexOf(element)\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the collection does not contain such element.\n */\n\npublic inline fun <T> Iterable<T>.indexOfFirst(predicate:

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(T) -> Boolean): Int {\n  var index = 0\n  for (item in this) {\n    checkIndexOverflow(index)\n    if
(predicate(item))\n      return index\n      index++\n  }\n  return -1}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T>
List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n  var index = 0\n  for (item in this) {\n    if
(predicate(item))\n      return index\n      index++\n  }\n  return -1}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun
<T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n  var lastIndex = -1\n  var index = 0\n  for (item
in this) {\n    checkIndexOverflow(index)\n    if (predicate(item))\n      lastIndex = index\n      index++\n  }\n  return lastIndex}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T> List<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n  val iterator =
this.listIterator(size)\n  while (iterator.hasPrevious()) {\n    if (predicate(iterator.previous())) {\n      return
iterator.nextIndex()\n    }\n  }\n  return -1}\n\n/**\n * Returns the last element.\n * \n * @throws
NoSuchElementException if the collection is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.last(): T {\n  when (this) {\n    is
List -> return this.last()\n    else -> {\n      val iterator = iterator()\n      if (!iterator.hasNext())\n        throw NoSuchElementException("Collection is empty.")\n      var last = iterator.next()\n      while
(iterator.hasNext())\n        last = iterator.next()\n      return last\n    }\n  }\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the list is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.last(): T {\n  if
(isEmpty())\n    throw NoSuchElementException("List is empty.")\n  return this[lastIndex]}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such
element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun <T>
Iterable<T>.last(predicate: (T) -> Boolean): T {\n  var last: T? = null\n  var found = false\n  for (element in this)
{\n    if (predicate(element)) {\n      last = element\n      found = true\n    }\n  }\n  if (!found) throw
NoSuchElementException("Collection contains no element matching the predicate.")\n  @Suppress("UNCHECKED_CAST")\n  return last as T}\n\n/**\n * Returns the last element matching the
given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.last(predicate: (T) -> Boolean): T
{\n  val iterator = this.listIterator(size)\n  while (iterator.hasPrevious()) {\n    val element = iterator.previous()\n    if
(predicate(element)) return element\n  }\n  throw NoSuchElementException("List contains no element
matching the predicate.")}\n\n/**\n * Returns last index of [element], or -1 if the collection does not contain
element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {\n  if
(this is List) return this.lastIndexOf(element)\n  var lastIndex = -1\n  var index = 0\n  for (item in this) {\n
checkIndexOverflow(index)\n    if (element == item)\n      lastIndex = index\n      index++\n  }\n  return
lastIndex}\n\n/**\n * Returns last index of [element],
or -1 if the list does not contain element.\n */\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") //
false warning, extension takes precedence in some cases\npublic fun <@kotlin.internal.OnlyInputTypes T>
List<T>.lastIndexOf(element: T): Int {\n  return lastIndexOf(element)\n}\n\n/**\n * Returns the last element, or
`null` if the collection is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun
<T> Iterable<T>.lastOrNull(): T? {\n  when (this) {\n    is List -> return if (isEmpty()) null else this[size - 1]\n    else -> {\n      val iterator = iterator()\n      if (!iterator.hasNext())\n        return null\n      var last =
iterator.next()\n      while (iterator.hasNext())\n        last = iterator.next()\n      return last\n    }\n  }\n}\n\n/**\n * Returns the last element, or `null` if the list is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.lastOrNull():
T? {\n  return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Iterable<T>.lastOrNull(predicate: (T) ->

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Boolean): T? {\n  var last: T? = null\n  for (element in this) {\n    if (predicate(element)) {\n      last = element\n    }\n  }\n  return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n  val iterator = this.listIterator(size)\n  while (iterator.hasPrevious()) {\n    val element = iterator.previous()\n    if (predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns a random element from this collection.\n *\n * @throws NoSuchElementException if this collection is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(): T {\n  return random(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of randomness.\n *\n * @throws NoSuchElementException if this collection is empty.\n */\n\n@SinceKotlin("1.3")\npublic fun <T> Collection<T>.random(random: Random): T {\n  if (isEmpty())\n    throw NoSuchElementException("Collection is empty.")\n  return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this collection, or `null` if this collection is empty.\n */\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.randomOrNull(): T? {\n  return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of randomness, or `null` if this collection is empty.\n *\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\n */\npublic fun <T> Collection<T>.randomOrNull(random: Random): T? {\n  if (isEmpty())\n    return null\n  return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the collection is empty or has more than one element.\n */\n\npublic fun <T> Iterable<T>.single(): T {\n  when (this) {\n    is List -> return this.single()\n    else -> {\n      val iterator = iterator()\n      if (!iterator.hasNext())\n        throw NoSuchElementException("Collection is empty.")\n      val single = iterator.next()\n      if (iterator.hasNext())\n        throw IllegalArgumentException("Collection has more than one element.")\n      return single\n    }\n  }\n}\n\n/**\n * Returns the single element, or throws an exception if the list is empty or has more than one element.\n */\n\npublic fun <T> List<T>.single(): T {\n  return when (size) {\n    0 -> throw NoSuchElementException("List is empty.")\n    1 -> this[0]\n    else -> throw IllegalArgumentException("List has more than one element.")\n  }\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n\npublic inline fun <T> Iterable<T>.single(predicate: (T) -> Boolean): T {\n  var single: T? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found) throw IllegalArgumentException("Collection contains more than one matching element.")\n      single = element\n      found = true\n    }\n  }\n  if (!found) throw NoSuchElementException("Collection contains no element matching the predicate.")\n  @SuppressWarnings("UNCHECKED_CAST")\n  return single as T\n}\n\n/**\n * Returns single element, or `null` if the collection is empty or has more than one element.\n */\n\npublic fun <T> Iterable<T>.singleOrNull(): T? {\n  when (this) {\n    is List -> return if (size == 1) this[0] else null\n    else -> {\n      val iterator = iterator()\n      if (!iterator.hasNext())\n        return null\n      val single = iterator.next()\n      if (iterator.hasNext())\n        return null\n      return single\n    }\n  }\n}\n\n/**\n * Returns single element, or `null` if the list is empty or has more than one element.\n */\n\npublic fun <T> List<T>.singleOrNull(): T? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n\npublic inline fun <T> Iterable<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n  var single: T? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found)\n        return null\n      single = element\n      found = true\n    }\n  }\n  if (!found) return null\n  return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n * @sample samples.collections.Collections.Transformations.drop\n */\n\npublic fun <T> Iterable<T>.drop(n: Int): List<T> {\n  require(n >= 0) { "Requested element count $n is less than zero." }\n  if (n == 0) return toList()\n  val list: ArrayList<T> = ArrayList()\n  if (this is Collection<*>) {\n    val resultSize = size - n\n
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if (resultSize <= 0)\n        return emptyList()\n        if (resultSize == 1)\n            return listOf(last())\n        list =
ArrayList<T>(resultSize)\n        if (this is List<T>) {\n            if (this is RandomAccess) {\n                for (index in n
until size)\n                    list.add(this[index])\n            } else {\n                for (item in listIterator(n))\n                    list.add(item)\n            }\n        } return list\n    }\n}\n else {\n    list = ArrayList<T>()\n}\n
var count = 0\n for (item in this) {\n    if (count >= n) list.add(item) else ++count\n }\n return
list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n *
@throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n * \npublic fun <T> List<T>.dropLast(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n * \npublic inline fun <T>
List<T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n    if (!isEmpty()) {\n        val iterator =
listIterator(size)\n
        while (iterator.hasPrevious()) {\n            if (!predicate(iterator.previous())) {\n                return
take(iterator.nextIndex() + 1)\n            }\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing
all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n * \npublic inline fun <T> Iterable<T>.dropWhile(predicate:
(T) -> Boolean): List<T> {\n    var yielding = false\n    val list = ArrayList<T>()\n    for (item in this)\n        if
(yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n
        }\n    return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n *
@sample samples.collections.Collections.Filtering.filter\n * \npublic inline fun <T> Iterable<T>.filter(predicate: (T)
-> Boolean): List<T> {\n    return filterTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n * \npublic
inline fun <T> Iterable<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n    return
filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to
the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n * \npublic inline fun <T, C : MutableCollection<in T>>
Iterable<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n    forEachIndexed { index,
element
-> \n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Returns a
list containing all elements that are instances of specified type parameter R.\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstance\n * \npublic inline fun <reified R>
Iterable<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n    return
filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all elements that are instances of specified type
parameter R to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstanceTo\n * \npublic inline fun <reified R, C :
MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination: C): C {\n    for (element in this) if (element is
R) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list containing all elements not matching
the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n * \npublic
inline fun <T> Iterable<T>.filterNot(predicate: (T) -> Boolean): List<T> {\n    return filterNotTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements\n that are not `null`.\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNull\n * \npublic fun <T : Any> Iterable<T?>.filterNotNull():
List<T> {\n    return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the
given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterNotNullTo\n * \npublic fun <C
: MutableCollection<in T>, T : Any> Iterable<T?>.filterNotNullTo(destination: C): C {\n    for (element in this) if

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(element != null) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterNotTo(destination:
C, predicate: (T) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n
return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
\n * @sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <T, C :
MutableCollection<in T>> Iterable<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in
this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list containing
elements at indices in the specified [indices] range.\n *\npublic fun <T> List<T>.slice(indices: IntRange): List<T>
{\n if (indices.isEmpty()) return listOf()\n return this.subList(indices.start, indices.endInclusive +
1).toList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n *\npublic fun <T>
List<T>.slice(indices: Iterable<Int>): List<T> {\n val size = indices.collectionSizeOrDefault(10)\n
if (size == 0) return emptyList()\n val list = ArrayList<T>(size)\n for (index in indices) {\n
list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun <T> Iterable<T>.take(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (this is
Collection<T>) {\n if (n >= size) return toList()\n if (n == 1) return listOf(first())\n }\n var count = 0\n
val list = ArrayList<T>()\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n
return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\npublic fun <T> List<T>.takeLast(n: Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less
than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1)
return listOf(last())\n val list = ArrayList<T>(n)\n if (this is RandomAccess) {\n for (index in size - n until
size)\n list.add(this[index])\n } else {\n for (item in listIterator(size - n))\n list.add(item)\n }\n
return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun <T> List<T>.takeLastWhile(predicate:
(T) -> Boolean): List<T> {\n if (isEmpty())\n return emptyList()\n val iterator = listIterator(size)\n while
(iterator.hasPrevious()) {\n if (!predicate(iterator.previous()))\n iterator.next()\n
val expectedSize = size - iterator.nextIndex()\n if (expectedSize == 0) return emptyList()\n
return ArrayList<T>(expectedSize).apply {\n while (iterator.hasNext())\n add(iterator.next())\n
}\n }\n return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic inline fun <T>
Iterable<T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n val list = ArrayList<T>()\n for (item in this) {\n
if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Reverses elements in the
list in-place.\n *\npublic expect fun <T> MutableList<T>.reverse(): Unit\n\n/**\n * Returns a list with elements in
reversed order.\n *\npublic fun <T> Iterable<T>.reversed(): List<T> {\n if (this is Collection && size <= 1)
return toList()\n
val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Randomly shuffles elements in this list in-
place using the specified [random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
*\n *@SinceKotlin(\"1.3\")\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\n for (i in lastIndex
downTo 1) {\n val j = random.nextInt(i + 1)\n this[j] = this.set(i, this[j])\n }\n}\n\n/**\n * Sorts elements
in the list in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The
sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n
*\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {\n if (size > 1)
sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to natural

```

sort order of the value returned by specified [selector] function. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public inline fun <T, R : Comparable<R>>
MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {
    if (size > 1)
        sortByDescending(selector)
}

```

sorts elements in the list in-place descending according to their natural sort order. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {
    sortByDescending(selector)
}

```

Returns a list of all elements sorted according to their natural sort order. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {
    if (this is Collection)
        if (size <= 1) return this.toList()
        @Suppress("UNCHECKED_CAST") return
        (toArray<Comparable<T>>() as Array<T>).apply { sort() }.asList()
    }
    return toMutableList().apply { sort() }
}

```

Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

@sample samples.collections.Collections.Sorting.sortedBy
public inline fun <T, R : Comparable<R>> Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {
    return sortedWith(compareBy(selector))
}

```

Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public inline fun <T, R : Comparable<R>> Iterable<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {
    return sortedWith(compareByDescending(selector))
}

```

Returns a list of all elements sorted descending according to their natural sort order. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T> {
    return sortedWith(reverseOrder())
}

```

Returns a list of all elements sorted according to the specified [comparator]. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public fun <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {
    if (this is Collection)
        if (size <= 1) return this.toList()
        @Suppress("UNCHECKED_CAST") return
        (toArray<Any?>() as Array<T>).apply { sortByDescending(comparator) }.asList()
    }
    return toMutableList().apply { sortByDescending(comparator) }
}

```

Returns an array of Boolean containing all of the elements of this collection.

```

public fun Collection<Boolean>.toBooleanArray(): BooleanArray {
    val result = BooleanArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns an array of Byte containing all of the elements of this collection.

```

public fun Collection<Byte>.toByteArray(): ByteArray {
    val result = ByteArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns an array of Char containing all of the elements of this collection.

```

public fun Collection<Char>.toCharArray(): CharArray {
    val result = CharArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns an array of Double containing all of the elements of this collection.

```

public fun Collection<Double>.toDoubleArray(): DoubleArray {
    val result = DoubleArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns an array of Float containing all of the elements of this collection.

```

public fun Collection<Float>.toFloatArray(): FloatArray {
    val result = FloatArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns an array of Int containing all of the elements of this collection.

```

public fun Collection<Int>.toIntArray(): IntArray {
    val result = IntArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns an array of Long containing all of the elements of this collection.

```

public fun Collection<Long>.toLongArray(): LongArray {
    val result = LongArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns an array of Short containing all of the elements of this collection.

```

public fun Collection<Short>.toShortArray(): ShortArray {
    val result = ShortArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

```

result\n\n\n**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given collection.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associate\n */\npublic inline fun <T, K, V>
Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n    val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K,
V>(capacity), transform)\n}\n\n**\n * Returns a [Map] containing the elements from the given collection indexed by the key\n * returned from
[keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the
original collection.\n * \n * @sample samples.collections.Collections.Transformations.associateBy\n */\npublic
inline fun <T, K> Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n    val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K,
T>(capacity), keySelector)\n}\n\n**\n * Returns a [Map] containing the values provided by [valueTransform] and
indexed by [keySelector] functions applied to elements of the given collection.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V>
Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n    val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n**\n * Populates and returns the [destination] mutable map with
key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given
collection\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M : MutableMap<in
K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n    for
(element in this) {\n        destination.put(keySelector(element), element)\n    }\n    return destination\n}\n\n**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the
given collection.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets
added to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateByToWithValueTransform\n */\npublic inline fun <T, K,
V, M : MutableMap<in K, in V>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n    for (element in this) {\n        destination.put(keySelector(element),
valueTransform(element))\n    }\n    return destination\n}\n\n**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each
element of the given collection.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Collections.Transformations.associateTo\n */\npublic inline fun <T, K,
V, M : MutableMap<in K, in V>> Iterable<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n
for (element in this) {\n    destination += transform(element)\n }\n    return destination\n}\n\n**\n * Returns a
[Map] where keys are elements from the given collection and values are\n * produced by the [valueSelector]
function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n *
The returned map preserves the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin("1.3")\npublic inline fun <K,
V> Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n    val result = LinkedHashMap<K,
V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given collection,\n * where key is the element itself and value is provided by the [valueSelector]

```

```

function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the
map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.3")\npublic inline fun <K, V, M : MutableMap<in K, in V>>
Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n for (element in this) {\n
destination.put(element, valueSelector(element))\n } \n return destination\n}\n\n/**\n * Appends all elements to
the given [destination] collection.\n *\npublic fun <T, C : MutableCollection<in T>>
Iterable<T>.toCollection(destination: C): C {\n for (item in this)
{\n destination.add(item)\n } \n return destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*\npublic fun <T> Iterable<T>.toHashSet(): HashSet<T> {\n return
toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))\n}\n\n/**\n * Returns a [List] containing all
elements.\n *\npublic fun <T> Iterable<T>.toList(): List<T> {\n if (this is Collection) {\n return when (size)
{\n 0 -> emptyList()\n 1 -> listOf(if (this is List) get(0) else iterator().next())\n else ->
this.toMutableList()\n } \n } \n return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a
new [MutableList] filled with all elements of this collection.\n *\npublic fun <T> Iterable<T>.toMutableList():
MutableList<T> {\n if (this is Collection<T>)\n return this.toMutableList()\n return
toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this collection.\n
*\npublic fun <T> Collection<T>.toMutableList(): MutableList<T> {\n return ArrayList(this)\n}\n\n/**\n *
Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original
collection.\n *\npublic fun <T> Iterable<T>.toSet(): Set<T> {\n if (this is Collection) {\n return when (size)
{\n 0 -> emptySet()\n 1 -> setOf(if (this is List) this[0] else iterator().next())\n else ->
toCollection(LinkedHashSet<T>(mapCapacity(size)))\n } \n } \n return
toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single list of all elements
yielded from results of [transform] function being invoked on each element of original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <T, R>
Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original
collection.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <T, R>
Iterable<T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Iterable<T>.flatMapIndexed(transform:
(index: Int, T) -> Iterable<R>): List<R> {\n return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n *
Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n *
and its index in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequence")\n@kotlin.internal.InlineOnly\npubli
c inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original collection, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

```

ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c
inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =
transform(checkIndexOverflow(index++), element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element\n * and its index in the original collection, to the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npu
blic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>):
C {\n    var index = 0\n    for (element in this) {\n        val list = transform(checkIndexOverflow(index++),
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element of original collection, to the given [destination].\n
*\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) ->
Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n
    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being
invoked on each element of original collection, to the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapSequenceTo")\npublic inline fun <T, R, C :
MutableCollection<in
R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n    for (element in this) {\n
val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Groups
elements of the original collection by the key returned by the given [keySelector] function\n * applied to each
element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The
returned map preserves the entry iteration order of the keys produced from the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n *\npublic inline fun <T, K>
Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n    return groupByTo(LinkedHashMap<K,
MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to
each element of the original collection\n * by the key returned by the given [keySelector] function applied to the
element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The
returned map preserves the entry iteration order of the keys produced from the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n *\npublic inline fun <T, K, V>
Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n    return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements
of the original collection by the key returned by the given [keySelector] function\n * applied to each element and
puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *\npublic inline
fun <T, K, M : MutableMap<in K, MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) ->
K): M {\n
    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) {
ArrayList<T>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original collection\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n *\npublic inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =

```



resulting list are in the same order as they were in the source collection.

```

@sample
samples.collections.Collections.Transformations.distinctAndDistinctBy
*/\npublic fun <T> Iterable<T>.distinct():
List<T> {\n    return this.toMutableSet().toList()\n}\n\n/**
*/ Returns a list containing only elements from the
given collection
*/ having distinct keys returned by the given [selector] function.
*/ \n * Among elements of the
given collection with equal keys, only the first one will be present in the resulting list.
*/ \n * The elements in the
resulting list are in the same order as they were in the source collection.
*/ \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy
*/\npublic inline fun <T, K>
Iterable<T>.distinctBy(selector: (T) -> K): List<T> {\n    val set = HashSet<K>()\n    val list = ArrayList<T>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**
*/ Returns a set containing all elements that are contained by both this collection and the specified collection.
*/ \n * \n *
The returned set preserves the element iteration order of the original
collection.
*/ \n * To get a set containing all elements that are contained at least in one of these collections use
[union].
*/\npublic infix fun <T> Iterable<T>.intersect(other: Iterable<T>): Set<T> {\n    val set =
this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**
*/ Returns a set containing all elements that are
contained by this collection and not contained by the specified collection.
*/ \n * The returned set preserves the
element iteration order of the original collection.
*/\npublic infix fun <T> Iterable<T>.subtract(other:
Iterable<T>): Set<T> {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\n\n/**
*/ Returns a new [MutableSet] containing all distinct elements from the given collection.
*/ \n * The returned set
preserves the element iteration order of the original collection.
*/\npublic fun <T> Iterable<T>.toMutableSet():
MutableSet<T> {\n    return when (this) {\n        is Collection<T> -> LinkedHashSet(this)\n
        else -> toCollection(LinkedHashSet<T>())\n    }\n}\n\n/**
*/ Returns a set containing all distinct elements
from both collections.
*/ \n * The returned set preserves the element iteration order of the original collection.
*/ \n *
Those elements of the [other] collection that are unique are iterated in the end
*/ \n * in the order of the [other]
collection.
*/ \n * To get a set containing all elements that are contained in both collections use [intersect].
*/\npublic infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {\n    val set = this.toMutableSet()\n
set.addAll(other)\n    return set\n}\n\n/**
*/ Returns `true` if all elements match the given [predicate].
*/ \n * \n *
@sample samples.collections.Collections.Aggregates.all
*/\npublic inline fun <T> Iterable<T>.all(predicate: (T) -
> Boolean): Boolean {\n    if (this is Collection && isEmpty()) return true\n    for (element in this) if
(!predicate(element)) return false\n    return true\n}\n\n/**
*/ Returns `true`
if collection has at least one element.
*/ \n * @sample samples.collections.Collections.Aggregates.any
*/\npublic fun <T> Iterable<T>.any(): Boolean {\n    if (this is Collection) return !isEmpty()\n    return
iterator().hasNext()\n}\n\n/**
*/ Returns `true` if at least one element matches the given [predicate].
*/ \n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate
*/\npublic inline fun <T>
Iterable<T>.any(predicate: (T) -> Boolean): Boolean {\n    if (this is Collection && isEmpty()) return false\n    for
(element in this) if (predicate(element)) return true\n    return false\n}\n\n/**
*/ Returns the number of elements in
this collection.
*/\npublic fun <T> Iterable<T>.count(): Int {\n    if (this is Collection) return size\n    var count =
0\n    for (element in this) checkCountOverflow(++count)\n    return count\n}\n\n/**
*/ Returns the number of
elements in this collection.
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.count():
Int {\n    return size\n}\n\n/**
*/ Returns the number of elements matching the given [predicate].
*/\npublic
inline fun <T> Iterable<T>.count(predicate: (T) -> Boolean): Int {\n    if (this is Collection && isEmpty()) return
0\n    var count = 0\n    for (element in this) if (predicate(element)) checkCountOverflow(++count)\n    return
count\n}\n\n/**
*/ Accumulates value starting with [initial] value and applying [operation] from left to right
*/ \n * to
current accumulator value and each element.
*/ \n * Returns the specified [initial] value if the collection is empty.
*/ \n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.
*/\npublic inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n    var accumulator = initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return
accumulator\n}\n\n/**
*/ Accumulates value starting with [initial] value

```

and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original collection.\n \* \n \* Returns the specified [initial] value if the collection is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the list is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <T, R> List<T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n var accumulator = initial\n if (!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n accumulator = operation(iterator.previous(), accumulator)\n }\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element with its index in the original list and current accumulator value.\n \* \n \* Returns the specified [initial] value if the list is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself\n \* and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <T, R> List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n var accumulator = initial\n if (!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n val index = iterator.previousIndex()\n accumulator = operation(index, iterator.previous(), accumulator)\n }\n }\n return accumulator\n}\n\n/\*\*\n \* Performs the given [action] on each element.\n \*/\n@kotlin.internal.HidesMembers\npublic inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/\*\*\n \* Performs the given [action] on each element, providing sequential index with the element.\n \* \n \* @param [action] function that takes the index of an element and the element itself\n \* and performs the action on the element.\n \*/\npublic inline fun <T> Iterable<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n var index = 0\n for (item in this) action(checkIndexOverflow(index++), item)\n}\n\n@Deprecated("Use maxOrNull instead.")\nReplaceWith("maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4")\n@SinceKotlin("1.1")\npublic fun Iterable<Double>.max(): Double? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")\nReplaceWith("maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4")\n@SinceKotlin("1.1")\npublic fun Iterable<Float>.max(): Float? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")\nReplaceWith("maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun <T : Comparable<T>> Iterable<T>.max(): T? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.")\nReplaceWith("maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxBy(selector: (T) -> R): T? {\n return maxByOrNull(selector)\n}\n\n/\*\*\n \* Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n \* \n \* @sample samples.collections.Collections.Aggregates.maxByOrNull\n \*/\n@SinceKotlin("1.4")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxByOrNull(selector: (T) -> R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxElem = iterator.next()\n if (!iterator.hasNext()) return maxElem\n var maxV = selector(maxElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (maxV < v) {\n maxElem = e\n maxV = v\n }\n } while (iterator.hasNext())\n return maxElem\n}\n\n/\*\*\n \* Returns the largest value among all values produced by [selector] function\n \* applied to each element in the collection.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* @throws NoSuchElementException if the collection is empty.\n \*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) -> Double):

```

Double {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var
    maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/** Returns the largest value among all
values produced by [selector] function
* applied to each element in the collection.
* If any of values
produced by [selector] function is `NaN`,
the returned result is `NaN`.
* @throws NoSuchElementException
if the collection is empty.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.maxOf(selector: (T) ->
Float): Float {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var
    maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxValue = maxOf(maxValue, v)
    }
    return
    maxValue
}

/** Returns the largest value among all values produced by [selector] function
* applied to each element in the collection.
* @throws NoSuchElementException if the collection is empty.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>>
Iterable<T>.maxOf(selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw
    NoSuchElementException()
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v
        = selector(iterator.next())
        if (maxValue < v) {
            maxValue = v
        }
    }
    return
    maxValue
}

/** Returns the largest value among all values produced by [selector] function
* applied to each element in the collection
or `null` if there are no elements.
* If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.maxOfOrNull(selector: (T)
-> Double): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var maxValue =
    selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxValue =
        maxOf(maxValue, v)
    }
    return maxValue
}

/** Returns the largest value among all values produced
by [selector] function
* applied to each element in the collection or `null` if there are no elements.
* If any
of values produced by [selector] function is `NaN`, the returned result is `NaN`.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public
inline fun <T> Iterable<T>.maxOfOrNull(selector: (T) -> Float): Float? {
    val iterator = iterator()
    if
    (!iterator.hasNext()) return null
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/** Returns the largest value among all values produced by [selector] function
* applied to each element in the
collection or `null` if there are no elements.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>>
Iterable<T>.maxOfOrNull(selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) return
    null
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val
        v = selector(iterator.next())
        if (maxValue < v) {
            maxValue = v
        }
    }
    return
    maxValue
}

/** Returns the largest value according to the provided [comparator]
* among all values
produced by [selector] function applied to each element in the collection.
* @throws
NoSuchElementException if the collection is empty.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R>
Iterable<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    val iterator = iterator()
    if
    (!iterator.hasNext()) throw NoSuchElementException()
    var maxValue = selector(iterator.next())
    while

```



```

is `NaN`. \n * \n * @throws NoSuchElementException if the collection is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) ->
Double): Double {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n
    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n
    minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`. \n * \n * @throws NoSuchElementException
if the collection is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) ->
Float): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var
minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n
    minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the
collection.\n * \n * @throws NoSuchElementException if the collection is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.minOf(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw
NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v
= selector(iterator.next())\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`,
the returned result is `NaN`. \n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector: (T)
-> Double): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minValue =
selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue =
minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`. \n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector:
(T) -> Float): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minValue =
selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue =
minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.minOfOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return
null\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v =
selector(iterator.next())\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n
    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Iterable<T>.minOfWith(comparator:

```

```

Comparator<in R>, selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the collection or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R>
Iterable<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest element or `null` if there are no elements.
If any of elements is `NaN` returns `NaN`.

@SinceKotlin("1.4")
public fun
Iterable<Double>.minOrNull(): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        min = minOf(min, e)
    }
    return min
}

Returns the smallest element or `null` if there are no elements.
If any of elements is `NaN` returns `NaN`.

@SinceKotlin("1.4")
public fun
Iterable<Float>.minOrNull(): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        min = minOf(min, e)
    }
    return min
}

Returns the smallest element or `null` if there are no elements.

@SinceKotlin("1.4")
public fun <T : Comparable<T>> Iterable<T>.minOrNull(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (min > e) min = e
    }
    return min
}

@Deprecated("Use minWithOrNull instead.",
ReplaceWith("minWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {
    return minWithOrNull(comparator)
}

Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

@SinceKotlin("1.4")
public fun <T>
Iterable<T>.minWithOrNull(comparator: Comparator<in T>): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

Returns `true` if the collection has no elements.

@sample samples.collections.Collections.Aggregates.none
@public fun
<T> Iterable<T>.none(): Boolean {
    if (this is Collection) return isEmpty()
    return !iterator().hasNext()
}

Returns `true` if no elements match the given [predicate].

@sample samples.collections.Collections.Aggregates.noneWithPredicate
@public inline fun <T>
Iterable<T>.none(predicate: (T) -> Boolean): Boolean {
    if (this is Collection && isEmpty()) return true
    for (element in this) if (predicate(element)) return false
    return true
}

Performs the given [action] on each element and returns the collection itself afterwards.

@SinceKotlin("1.1")
@public inline fun <T, C :
Iterable<T>> C.onEach(action: (T) -> Unit): C {
    return apply { for (element in this) action(element) }
}

Performs the given [action] on each element, providing sequential index with the element, and returns the collection itself afterwards.

@param [action] function that takes the index of an element and the element itself
and performs the action on the element.

@SinceKotlin("1.4")
@public inline fun <T, C :
Iterable<T>> C.onEachIndexed(action: (index: Int, T) -> Unit): C {
    return apply { forEachIndexed(action) }
}

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.

Throws an exception if this collection is empty. If the collection can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduce

```

```

*\npublic inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")\n    var\n    accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator = operation(accumulator,\n        iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting\n * with the first element and applying [operation] from left to right\n * to current accumulator value and each element\n * with its index in the original collection.\n * \n * Throws an exception if this collection is empty. If the collection can\n * be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is\n * empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the\n * element itself,\n * and calculates the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduce\n */\n\npublic inline fun <S, T : S>\nIterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if\n    (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")\n    var index =\n    1\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator =\n        operation(checkIndexOverflow(index++),\n        accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first\n * element and applying [operation] from left to right\n * to current accumulator value and each element with its index\n * in the original collection.\n * \n * Returns `null` if the collection is empty.\n * \n * @param [operation] function that\n * takes the index of an element, current accumulator value and the element itself,\n * and calculates the next\n * accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> Iterable<T>.reduceIndexedOrNull(operation: (index: Int,\nacc: S, T) -> S): S? {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) return null\n    var index = 1\n    var\n    accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator =\n        operation(checkIndexOverflow(index++), accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current\n * accumulator value and each element.\n * \n * Returns `null` if the collection is empty.\n * \n * @param [operation]\n * function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceOrNull\n */\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>\nIterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n    val iterator = this.iterator()\n    if\n    (!iterator.hasNext()) return null\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator =\n        operation(accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value\n * starting with the last element and applying [operation] from right to left\n * to each element and current accumulator\n * value.\n * \n * Throws\n * an exception if this list is empty. If the list can be empty in an expected way,\n * please use [reduceRightOrNull]\n * instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and\n * current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\n\npublic inline fun <S, T : S>\nList<T>.reduceRight(operation: (T, acc: S) -> S): S {\n    val iterator = listIterator(size)\n    if\n    (!iterator.hasPrevious())\n    throw UnsupportedOperationException("Empty list can't be reduced.")\n    var\n    accumulator: S = iterator.previous()\n    while (iterator.hasPrevious()) {\n        accumulator =\n        operation(iterator.previous(), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting\n * with the last element and applying [operation] from right to left\n * to each element with its index in the original list\n * and current accumulator value.\n * \n * \n * Throws an exception if this list is empty. If the list can be empty in an expected way,\n * please use\n * [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]\n * function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the\n * next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\n\npublic inline fun <S, T : S> List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n    val iterator =

```

```

listIterator(size)\n if (!iterator.hasPrevious())\n     throw UnsupportedOperationException("Empty list can't be
reduced.")\n var accumulator: S = iterator.previous()\n while (iterator.hasPrevious()) {\n     val index =
iterator.previousIndex()\n     accumulator = operation(index, iterator.previous(), accumulator)\n } return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and
applying [operation] from right to left\n * to each element with its index in the original list and current accumulator
value.\n * \n * Returns `null` if the list is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin("1.4")\npublic inline
fun <S, T : S> List<T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\n     val iterator =
listIterator(size)\n     if (!iterator.hasPrevious())\n         return null\n     var accumulator: S = iterator.previous()\n     while (iterator.hasPrevious()) {\n         val index = iterator.previousIndex()\n         accumulator = operation(index,
iterator.previous(), accumulator)\n     }\n     return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to
each element and current accumulator value.\n * \n * Returns `null` if the list is empty.\n * \n * @param [operation]
function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n     val iterator = listIterator(size)\n     if
(!iterator.hasPrevious())\n         return null\n     var accumulator: S = iterator.previous()\n     while
(iterator.hasPrevious()) {\n         accumulator = operation(iterator.previous(), accumulator)\n     }\n     return
accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n *
Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin("1.4")\npublic inline fun <T, R> Iterable<T>.runningFold(initial: R, operation: (acc: R, T) ->
R): List<R> {\n     val estimatedSize = collectionSizeOrDefault(9)\n     if (estimatedSize == 0) return listOf(initial)\n     val result = ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n     var accumulator = initial\n     for (element in
this) {\n         accumulator = operation(accumulator, element)\n         result.add(accumulator)\n     }\n     return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\n * to each element, its index in the original collection and current accumulator
value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin("1.4")\npublic inline fun <T, R> Iterable<T>.runningFoldIndexed(initial: R, operation: (index:
Int, acc: R, T) -> R): List<R> {\n     val estimatedSize = collectionSizeOrDefault(9)\n     if (estimatedSize == 0)
return listOf(initial)\n     val result = ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n     var index = 0\n     var
accumulator = initial\n     for (element in this) {\n         accumulator = operation(index++, accumulator, element)\n         result.add(accumulator)\n     }\n     return result\n}\n\n/**\n * Returns a list containing
successive accumulation values generated by applying [operation] from left to right\n * to each element and current
accumulator value that starts with the first element of this collection.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and the element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Iterable<T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n     val iterator = this.iterator()\n     if

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(iterator.hasNext()) return emptyList()\n    var accumulator: S = iterator.next()\n    val result =
ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\n    while (iterator.hasNext()) {\n
accumulator = operation(accumulator,
iterator.next())\n    result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing
successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in
the original collection and current accumulator value that starts with the first element of this collection.\n * \n * Note
that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous
value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n * \n * @SinceKotlin("1.4")\n * \n * public inline fun <S, T :
S> Iterable<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n    val iterator =
this.iterator()\n    if (!iterator.hasNext()) return emptyList()\n    var accumulator:
S = iterator.next()\n    val result = ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\n    var
index = 1\n    while (iterator.hasNext()) {\n        accumulator = operation(index++, accumulator, iterator.next())\n
result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n * @SinceKotlin("1.4")\n * \n * @WasExperimental(ExperimentalStdlibApi::class)\n * \n * public inline fun <T, R>
Iterable<T>.scan(initial: R, operation:
(acc: R, T) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing
successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in
the original collection and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value
passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting
list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the
element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n * @SinceKotlin("1.4")\n * \n * @WasExperimental(ExperimentalStdlibApi::class)\n * \n * public inline fun <T, R>
Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n    return
runningFoldIndexed(initial, operation)\n}\n\n@Deprecated("Use runningReduce instead.",
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S>
Iterable<T>.scanReduce(operation: (acc: S, T) -> S): List<S> {\n    return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.",
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S>
Iterable<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n    return
runningReduceIndexed(operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the collection.\n * \n * @public inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int): Int
{\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in
the collection.\n * \n * @public inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {\n    var
sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the collection.\n
*\n * @SinceKotlin("1.4")\n * \n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * \n * @OverloadResolution
ByLambdaReturnType\n * \n * @kotlin.jvm.JvmName("sumOfDouble")\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline fun

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<T> Iterable<T>.sumOf(selector: (T) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element in
this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n * Returns the sum of all values produced by
[selector] function applied to each element in the collection.\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Iterable<T>.sumOf(selector: (T) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this)
{\n    sum += selector(element)\n  }\n  return sum\n}\n\n * Returns the sum of all values produced by
[selector] function applied to each element in the collection.\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Iterable<T>.sumOf(selector: (T) -> Long): Long {\n  var sum: Long = 0.toLong()\n  for (element in this) {\n
    sum += selector(element)\n  }\n  return sum\n}\n\n * Returns the sum of all values produced by [selector]
function applied to each element in the collection.\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal
.InlineOnly\npublic
inline fun <T> Iterable<T>.sumOf(selector: (T) -> UInt): UInt {\n  var sum: UInt = 0.toUInt()\n  for (element in
this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n * Returns the sum of all values produced by
[selector] function applied to each element in the collection.\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> ULong): ULong {\n  var sum: ULong =
0.toULong()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n * Returns
an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are
any `null` elements.\n * \n\npublic fun <T : Any> Iterable<T?>.requireNoNulls():
Iterable<T> {\n  for (element in this) {\n    if (element == null) {\n      throw
IllegalArgumentException("null element found in $this.")\n    }\n  }\n  @Suppress("UNCHECKED_CAST")\n  return this as Iterable<T>\n}\n\n * Returns an original collection
containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n
*\n\npublic fun <T : Any> List<T?>.requireNoNulls(): List<T> {\n  for (element in this) {\n    if (element ==
null) {\n      throw IllegalArgumentException("null element found in $this.")\n    }\n  }\n  @Suppress("UNCHECKED_CAST")\n  return this as List<T>\n}\n\n * Splits this collection into a list of
lists each not exceeding the given [size].\n * \n * The last list in the resulting list may have less elements than the
given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater
than the number of
elements in this collection.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n
*\n\n@SinceKotlin("1.2")\npublic fun <T> Iterable<T>.chunked(size: Int): List<List<T>> {\n  return
windowed(size, size, partialWindows = true)\n}\n\n * Splits this collection into several lists each not exceeding
the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return list of results of the
[transform] applied to an each list.\n * \n * Note that the list passed to the [transform] function is ephemeral and is
valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a
snapshot of it.\n * The last list may have less elements than the given [size].\n * \n * @param size the number of
elements to take in each list, must be positive and can be greater than the number of elements in this collection.\n
*\n\n * @sample samples.text.Strings.chunkedTransform\n\n@SinceKotlin("1.2")\npublic fun
<T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R> {\n  return windowed(size, size,
partialWindows = true, transform = transform)\n}\n\n * Returns a list containing all elements of the original
collection without the first occurrence of the given [element].\n *\n\npublic operator fun <T>
Iterable<T>.minus(element: T): List<T> {\n  val result = ArrayList<T>(collectionSizeOrDefault(10))\n  var

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removed = false\n    return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true
}\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the
given [elements] array.\n * \n * The [elements] array may be converted to a [HashSet] to speed up the operation,
thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change
between successive invocations.\n *\npublic operator fun <T> Iterable<T>.minus(elements: Array<out T>):
List<T> {\n    if (elements.isEmpty()) return this.toList()\n    val other = elements.toHashSet()\n    return
this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the
elements contained in the given [elements] collection.\n * \n * The [elements] collection may be converted to a
[HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation
of `hashCode()` that doesn't change between successive invocations.\n *\npublic operator fun <T>
Iterable<T>.minus(elements: Iterable<T>): List<T> {\n    val other =
elements.convertToSetForSetOperationWith(this)\n    if (other.isEmpty())\n        return this.toList()\n    return
this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the
elements contained in the given [elements] sequence.\n * \n * The [elements] sequence may be converted to a
[HashSet] to speed up the operation,
thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change
between successive invocations.\n *\npublic operator fun <T> Iterable<T>.minus(elements: Sequence<T>):
List<T> {\n    val other = elements.toHashSet()\n    if (other.isEmpty())\n        return this.toList()\n    return
this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection without the
first occurrence of the given [element].\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.minusElement(element: T): List<T> {\n    return minus(element)\n}\n\n/**\n * Splits the original
collection into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while
*second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Iterables.Operations.partition\n *\npublic inline fun <T> Iterable<T>.partition(predicate: (T) ->
Boolean): Pair<List<T>, List<T>> {\n    val first = ArrayList<T>()\n    val second = ArrayList<T>()\n    for
(element in this) {\n        if (predicate(element)) {\n            first.add(element)\n        } else {\n
second.add(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Returns a list containing all elements
of the original collection and then the given [element].\n *\npublic operator fun <T> Iterable<T>.plus(element: T):
List<T> {\n    if (this is Collection) return this.plus(element)\n    val result = ArrayList<T>()\n
result.addAll(this)\n    result.add(element)\n    return result\n}\n\n/**\n * Returns a list containing all elements of the
original collection and then the given [element].\n *\npublic operator fun <T> Collection<T>.plus(element: T):
List<T> {\n    val result = ArrayList<T>(size + 1)\n    result.addAll(this)\n    result.add(element)\n    return
result\n}\n\n/**\n * Returns a list containing all elements of the original collection
and then all elements of the given [elements] array.\n *\npublic operator fun <T> Iterable<T>.plus(elements:
Array<out T>): List<T> {\n    if (this is Collection) return this.plus(elements)\n    val result = ArrayList<T>()\n
result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a list containing all elements
of the original collection and then all elements of the given [elements] array.\n *\npublic operator fun <T>
Collection<T>.plus(elements: Array<out T>): List<T> {\n    val result = ArrayList<T>(this.size + elements.size)\n
result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a list containing all elements
of the original collection and then all elements of the given [elements] collection.\n *\npublic operator fun <T>
Iterable<T>.plus(elements: Iterable<T>): List<T> {\n    if (this is Collection) return this.plus(elements)\n    val
result = ArrayList<T>()\n    result.addAll(this)\n    result.addAll(elements)\n
return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of
the given [elements] collection.\n *\npublic operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T>
{\n    if (elements is Collection) {\n        val result = ArrayList<T>(this.size + elements.size)\n
result.addAll(this)\n        result.addAll(elements)\n        return result\n    } else {\n        val result =
ArrayList<T>(this)\n        result.addAll(elements)\n        return result\n    }\n}\n\n/**\n * Returns a list containing all
elements of the original collection and then all elements of the given [elements] sequence.\n *\npublic operator fun

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<T> Iterable<T>.plus(elements: Sequence<T>): List<T> {\n    val result = ArrayList<T>()\n    result.addAll(this)\n    result.addAll(elements)\n    return result}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.\n */\npublic operator fun <T> Collection<T>.plus(elements: Sequence<T>): List<T> {\n    val result = ArrayList<T>(this.size + 10)\n    result.addAll(this)\n    result.addAll(elements)\n    return result}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.plusElement(element: T): List<T> {\n    return plus(element)\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.plusElement(element: T): List<T> {\n    return plus(element)\n}\n\n/**\n * Returns a list of snapshots of the window of the given [size] sliding along this collection with the given [step], where each snapshot is a list.\n * Several last lists may have less elements than the given [size].\n * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * @sample\n samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin("1.2")\npublic fun <T> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {\n    checkWindowSizeStep(size, step)\n    if (this is RandomAccess && this is List) {\n        val thisSize = this.size\n        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n        val result = ArrayList<List<T>>(resultCapacity)\n        var index = 0\n        while (index in 0 until thisSize) {\n            val\n            windowSize = size.coerceAtMost(thisSize - index)\n            if (windowSize < size && !partialWindows) break\n            result.add(List(windowSize) { this[it + index] })\n            index += step\n        }\n        return result\n    }\n    val result = ArrayList<List<T>>()\n    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {\n        result.add(it)\n    }\n    return result\n}\n\n/**\n * Returns a list of results of applying the given [transform] function to\n * an each list representing a view over the window of the given [size] sliding along this collection with the given [step].\n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last lists may have less elements than the given [size].\n * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * @sample\n samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin("1.2")\npublic fun <T, R> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): List<R> {\n    checkWindowSizeStep(size, step)\n    if (this is RandomAccess && this is List) {\n        val thisSize = this.size\n        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n        val result = ArrayList<R>(resultCapacity)\n        val window = MovingSubList(this)\n        var index = 0\n        while (index in 0 until thisSize) {\n            val windowSize = size.coerceAtMost(thisSize - index)\n            if (!partialWindows && windowSize < size) break\n            window.move(index, index + windowSize)\n            result.add(transform(window))\n            index += step\n        }\n        return result\n    }\n    val result = ArrayList<R>()\n    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {\n        result.add(transform(it))\n    }\n    return result\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * @sample\n samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other: Array<out R>): List<Pair<T, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` collection and the [other] array with the same index\n * using the provided

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[transform] function applied to each pair of elements.  
 \* The returned list has length of the shortest collection.  
 @sample  
 samples.collections.Iterables.Operations.zipIterableWithTransform  
 \*  
 public inline fun <T, R, V> Iterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {  
 val arraySize = other.size  
 val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))  
 var i = 0  
 for (element in this) {  
 if (i >= arraySize) break  
 list.add(transform(element, other[i++]))  
 }  
 return list  
 }  
 \* Returns a list of pairs built from the elements of `this` collection and [other] collection with the same index.  
 \* The returned list has length of the shortest collection.  
 @sample  
 samples.collections.Iterables.Operations.zipIterable  
 \*  
 public infix fun <T, R> Iterable<T>.zip(other: Iterable<R>): List<Pair<T, R>> {  
 return zip(other) { t1, t2 -> t1 to t2 }  
 }  
 \* Returns a list of values built from the elements of `this` collection and the [other] collection with the same index  
 \* using the provided [transform] function applied to each pair of elements.  
 \* The returned list has length of the shortest collection.  
 @sample  
 samples.collections.Iterables.Operations.zipIterableWithTransform  
 \*  
 public inline fun <T, R, V> Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {  
 val first = iterator()  
 val second = other.iterator()  
 val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), other.collectionSizeOrDefault(10)))  
 while (first.hasNext() && second.hasNext()) {  
 list.add(transform(first.next(), second.next()))  
 }  
 return list  
 }  
 \* Returns a list of pairs of each two adjacent elements in this collection.  
 \* The returned list is empty if this collection contains less than two elements.  
 @sample  
 samples.collections.Collections.Transformations.zipWithNext  
 \*  
 @SinceKotlin("1.2")  
 public fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {  
 return zipWithNext { a, b -> a to b }  
 }  
 \* Returns a list containing the results of applying the given [transform] function  
 \* to an each pair of two adjacent elements in this collection.  
 \* The returned list is empty if this collection contains less than two elements.  
 @sample  
 samples.collections.Collections.Transformations.zipWithNextToFindDeltas  
 \*  
 @SinceKotlin("1.2")  
 public inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {  
 val iterator = iterator()  
 if (!iterator.hasNext()) return emptyList()  
 val result = mutableListOf<R>()  
 var current = iterator.next()  
 while (iterator.hasNext()) {  
 val next = iterator.next()  
 result.add(transform(current, next))  
 current = next  
 }  
 return result  
 }  
 \* Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.  
 \* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]  
 \* elements will be appended, followed by the [truncated] string (which defaults to "...").  
 @sample  
 samples.collections.Collections.Transformations.joinTo  
 \*  
 public fun <T, A : Appendable> Iterable<T>.joinTo(buffer: A, separator: CharSequence = "\",", prefix: CharSequence = "\"", postfix: CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {  
 buffer.append(prefix)  
 var count = 0  
 for (element in this) {  
 if (++count > 1) buffer.append(separator)  
 if (limit < 0 || count <= limit) {  
 buffer.appendElement(element, transform)  
 } else break  
 }  
 if (limit >= 0 && count > limit) buffer.append(truncated)  
 buffer.append(postfix)  
 return buffer  
 }  
 \* Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.  
 \* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]  
 \* elements will be appended, followed by the [truncated] string (which defaults to "...").  
 @sample  
 samples.collections.Collections.Transformations.joinToString  
 \*  
 public fun <T> Iterable<T>.joinToString(separator: CharSequence = "\",", prefix: CharSequence = "\"", postfix: CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {  
 return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()  
 }  
 \* Returns this collection as an [Iterable].  
 @kotlin.internal.InlineOnly  
 public inline fun <T> Iterable<T>.asIterable(): Iterable<T> {  
 return this  
 }  
 \* Creates a [Sequence] instance that wraps the original collection returning

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its elements when being iterated.\n * \n * @sample
samples.collections.Sequences.Building.sequenceFromCollection\n
*\npublic fun <T> Iterable<T>.asSequence(): Sequence<T> {\n    return Sequence { this.iterator() }\n}\n\n/**\n *
Returns an average value of elements in the collection.\n *\n@kotlin.jvm.JvmName("averageOfByte")\npublic
fun Iterable<Byte>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n
        sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*\n@kotlin.jvm.JvmName("averageOfShort")\npublic fun Iterable<Short>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n *\n@kotlin.jvm.JvmName("averageOfInt")\npublic fun
Iterable<Int>.average():
Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n *\n@kotlin.jvm.JvmName("averageOfLong")\npublic fun
Iterable<Long>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n
        sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*\n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun Iterable<Float>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements
in the collection.\n *\n@kotlin.jvm.JvmName("averageOfDouble")\npublic fun Iterable<Double>.average():
Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
the sum of all elements in the collection.\n *\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun
Iterable<Byte>.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun Iterable<Short>.sum(): Int {\n    var sum: Int = 0\n    for
(element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the
collection.\n *\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun Iterable<Int>.sum(): Int {\n    var sum: Int = 0\n
for (element in
this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun Iterable<Long>.sum(): Long {\n    var sum: Long = 0L\n
for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in
the collection.\n *\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun Iterable<Float>.sum(): Float {\n    var
sum: Float = 0.0f\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the
sum of all elements in the collection.\n *\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun
Iterable<Double>.sum(): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += element\n
    }\n    return sum\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\npackage kotlin.collections\nimport kotlin.comparisons.naturalOrder\nimport
kotlin.random.Random\n\n/** Returns the array if it's not `null`, or an empty array otherwise.\n
*\n@kotlin.internal.InlineOnly\npublic actual inline fun <T> Array<out T>?.orEmpty(): Array<out T> = this ?:
emptyArray<T>()\n\n@kotlin.internal.InlineOnly\npublic actual inline fun <T> Collection<T>.toTypedArray():
Array<T> = copyToArray(this)\n\n@JsName("copyToArray")\n@PublishedApi\ninternal fun <T>
copyToArray(collection: Collection<T>): Array<T> {\n    return if (collection.asDynamic().toArray !==
undefined)\n        collection.asDynamic().toArray().unsafeCast<Array<T>>()\n    else\n

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copyToArrayImpl(collection).unsafeCast<Array<T>>()\n\n@JsName("copyToArrayImpl")\ninternal actual fun
copyToArrayImpl(collection: Collection<*>): Array<Any?> {\n    val array = emptyArray<Any?>()\n    val iterator
= collection.iterator()\n    while (iterator.hasNext())\n        array.asDynamic().push(iterator.next())\n
    return array\n}\n\n@JsName("copyToExistingArrayImpl")\ninternal actual fun <T>
copyToArrayImpl(collection: Collection<*>, array: Array<T>): Array<T> {\n    if (array.size < collection.size)\n
return copyToArrayImpl(collection).unsafeCast<Array<T>>()\n    val iterator = collection.iterator()\n    var index
= 0\n    while (iterator.hasNext()) {\n        array[index++] = iterator.next().unsafeCast<T>()\n    }\n    if (index <
array.size) {\n        array[index] = null.unsafeCast<T>()\n    }\n    return array\n}\n\n/**\n * Returns an immutable
list containing only the specified object [element].\n */\npublic fun <T> listOf(element: T): List<T> =
arrayListOf(element)\n\n@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.Inline
Only\ninternal actual inline fun <E> buildListInternal(builderAction: MutableList<E>().->Unit): List<E> {\n
return
ArrayList<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlib
Api\n@kotlin.internal.InlineOnly\ninternal
actual inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>().->Unit): List<E> {\n
checkBuilderCapacity(capacity)\n    return ArrayList<E>(capacity).apply(builderAction).build()\n}\n\n/**\n *
Returns an immutable set containing only the specified object [element].\n */\npublic fun <T> setOf(element: T):
Set<T> =
hashSetOf(element)\n\n@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.Inline
Only\ninternal actual inline fun <E> buildSetInternal(builderAction: MutableSet<E>().->Unit): Set<E> {\n
return
LinkedHashSet<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@Experimental
StdlibApi\n@kotlin.internal.InlineOnly\ninternal actual inline fun <E> buildSetInternal(capacity: Int, builderAction:
MutableSet<E>().->Unit): Set<E> {\n    return
LinkedHashSet<E>(capacity).apply(builderAction).build()\n}\n\n/**\n * Returns
an immutable map, mapping only the specified key to the\n */\npublic fun <K, V> mapOf(pair:
Pair<K, V>): Map<K, V> =
hashMapOf(pair)\n\n@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOn
ly\ninternal actual inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>().->Unit): Map<K, V>
{\n    return LinkedHashMap<K,
V>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin
.internal.InlineOnly\ninternal actual inline fun <K, V> buildMapInternal(capacity: Int, builderAction:
MutableMap<K, V>().->Unit): Map<K, V> {\n    return LinkedHashMap<K,
V>(capacity).apply(builderAction).build()\n}\n\n/**\n * Fills the list with the provided [value].\n */\npublic
actual fun <T>
MutableList<T>.fill(value: T): Unit {\n    for (index in 0..lastIndex) {\n        this[index] = value\n    }\n}\n\n/**\n
* Randomly shuffles elements in this list.\n */\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
}\n\n@SinceKotlin("1.2")\npublic actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)\n\n/**\n *
Returns a new list with the elements of this list randomly shuffled.\n */\n@SinceKotlin("1.2")\npublic actual fun
<T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }\n\n/**\n * Sorts elements in the list
in-place according to their natural sort order.\n */\n * The sort is _stable_. It means that equal elements preserve their
order relative to each other after sorting.\n */\npublic actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit
{\n    collectionsSort(this, naturalOrder())\n}\n\n/**\n * Sorts elements in the list in-place according to the order
specified with [comparator].\n */\n * The sort is _stable_. It means that equal elements preserve their order relative to
each other after sorting.\n */\npublic actual
fun <T> MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {\n    collectionsSort(this,
comparator)\n}\n\nprivate fun <T> collectionsSort(list: MutableList<T>, comparator: Comparator<in T>) {\n    if

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(list.size <= 1) return\n\n    val array = copyToArray(list)\n    sortArrayWith(array, comparator)\n\n    for (i in 0 until
array.size) {\n        list[i] = array[i]\n    }\n}\n\ninternal actual fun <T> arrayOfNulls(reference: Array<T>, size: Int):
Array<T> {\n    return
arrayOfNulls<Any>(size).unsafeCast<Array<T>>()\n}\n\n@SinceKotlin("1.3")\n@PublishedApi\n@JsName("arrayCopy")\ninternal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int,
startIndex: Int, endIndex: Int) {\n    AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)\n    val
rangeSize = endIndex - startIndex\n    AbstractList.checkRangeIndexes(destinationOffset, destinationOffset +
rangeSize, destination.size)\n\n    if (js("ArrayBuffer").isView(destination)
&& js("ArrayBuffer").isView(source)) {\n        val subrange = source.asDynamic().subarray(startIndex,
endIndex)\n        destination.asDynamic().set(subrange, destinationOffset)\n    } else {\n        if (source !===
destination || destinationOffset <= startIndex) {\n            for (index in 0 until rangeSize) {\n
destination[destinationOffset + index] = source[startIndex + index]\n            }\n        } else {\n            for (index in
rangeSize - 1 downTo 0) {\n                destination[destinationOffset + index] = source[startIndex + index]\n
            }\n        }\n    }\n}\n}\n}\n\n// no singleton map implementation in js, return map as
is\n\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline fun <K, V> Map<K,
V>.toSingletonMapOrSelf(): Map<K, V> = this\n\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline
fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> =
this.toMutableMap()\n\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline fun <T>
Array<out T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =\n    if (isVarargs)\n        // no need to
copy vararg array in JS\n        this\n    else\n        this.copyOf()\n\n\n@PublishedApi\n\ninternal actual fun
checkIndexOverflow(index: Int): Int {\n    if (index < 0) {\n        throwIndexOverflow()\n    }\n    return
index\n}\n\n\n@PublishedApi\n\ninternal actual fun checkCountOverflow(count: Int): Int {\n    if (count < 0) {\n
throwCountOverflow()\n    }\n    return count\n}\n\n\n\n**\n * JS map and set implementations do not make use of
capacities or load factors.\n * \n\n@PublishedApi\n\ninternal actual fun mapCapacity(expectedSize: Int) =
expectedSize\n\n\n**\n * Checks a collection builder function capacity argument.\n * In JS no validation is made in
Map/Set constructor yet.\n * \n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@PublishedApi\n\ninternal fun
checkBuilderCapacity(capacity: Int) {\n    require(capacity >= 0) { "capacity must be non-negative." }\n}\n\n\n**\n *
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by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\n\n**\n * Returns the given iterator itself. This allows to use an instance of iterator in a `for`
loop.\n * \n\n@sample samples.collections.Iterators.iterator\n * \n\n@kotlin.internal.InlineOnly\n\npublic inline operator
fun <T> Iterator<T>.iterator(): Iterator<T> = this\n\n\n**\n * Returns an [Iterator] that wraps each element produced
by the original iterator\n * into an [IndexedValue] containing the index of that element and the element itself.\n * \n\n
*\n * \n\n@sample samples.collections.Iterators.withIndexIterator\n * \n\npublic fun <T> Iterator<T>.withIndex():
Iterator<IndexedValue<T>> = IndexingIterator(this)\n\n\n**\n * Performs the given [operation] on each element of
this [Iterator].\n
*\n * \n\n@sample samples.collections.Iterators.forEachIterator\n * \n\npublic inline fun <T> Iterator<T>.forEach(operation:
(T) -> Unit): Unit {\n    for (element in this) operation(element)\n}\n\n\n**\n * Iterator transforming original
`iterator` into iterator of [IndexedValue], counting index from zero.\n * \n\n\ninternal class IndexingIterator<out
T>(private val iterator: Iterator<T>) : Iterator<IndexedValue<T>> {\n    private var index = 0\n    final override fun
hasNext(): Boolean = iterator.hasNext()\n    final override fun next(): IndexedValue<T> =
IndexedValue(checkIndexOverflow(index++), iterator.next())\n}\n\n\n**\n * Copyright 2010-2020 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("ComparisonsKt")\n\npackage
kotlin.comparisons\n\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n\n

```

See: <https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib>

`nimport kotlin.random.*`

Returns the greater of two values. If values are equal, returns the first one.

`@SinceKotlin("1.1")` public expect fun <T : Comparable<T>> maxOf(a: T, b: T): T Returns the greater of two values.

`@SinceKotlin("1.1")` @kotlin.internal.InlineOnly public expect inline fun maxOf(a: Byte, b: Byte): Byte Returns the greater of two values.

`@SinceKotlin("1.1")` @kotlin.internal.InlineOnly public expect inline fun maxOf(a: Short, b: Short): Short Returns the greater of two values.

`@SinceKotlin("1.1")` @kotlin.internal.InlineOnly public expect inline fun maxOf(a: Int, b: Int): Int Returns the greater of two values.

`@SinceKotlin("1.1")` @kotlin.internal.InlineOnly public expect inline fun maxOf(a: Long, b: Long): Long Returns the greater of two values. If either value is NaN, returns NaN.

`@SinceKotlin("1.1")` @kotlin.internal.InlineOnly public expect inline fun maxOf(a: Float, b: Float): Float Returns the greater of two values. If either value is NaN, returns NaN.

`@SinceKotlin("1.1")` @kotlin.internal.InlineOnly public expect inline fun maxOf(a: Double, b: Double): Double Returns the greater of three values. If there are multiple equal maximal values, returns the first of them.

`@SinceKotlin("1.1")` public expect fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T Returns the greater of three values.

`@SinceKotlin("1.1")` @kotlin.internal.InlineOnly public expect inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte Returns the greater of three values.

`@SinceKotlin("1.1")` @kotlin.internal.InlineOnly public expect inline fun maxOf(a: Short, b: Short, c: Short): Short Returns the greater of three values.

`@SinceKotlin("1.1")` @kotlin.internal.InlineOnly public expect inline fun maxOf(a: Int, b: Int, c: Int): Int Returns the greater of three values.

`@SinceKotlin("1.1")` @kotlin.internal.InlineOnly public expect inline fun maxOf(a: Long, b: Long, c: Long): Long Returns the greater of three values. If any value is NaN, returns NaN.

`@SinceKotlin("1.1")` @kotlin.internal.InlineOnly public expect inline fun maxOf(a: Float, b: Float, c: Float): Float Returns the greater of three values. If any value is NaN, returns NaN.

`@SinceKotlin("1.1")` @kotlin.internal.InlineOnly public expect inline fun maxOf(a: Double, b: Double, c: Double): Double Returns the greater of three values according to the order specified by the given [comparator]. If there are multiple equal maximal values, returns the first of them.

`@SinceKotlin("1.1")` public fun <T> maxOf(a: T, b: T, c: T, comparator: Comparator<in T>): T return maxOf(a, maxOf(b, c, comparator), comparator) Returns the greater of two values according to the order specified by the given [comparator]. If values are equal, returns the first one.

`@SinceKotlin("1.1")` public fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T return if (comparator.compare(a, b) >= 0) a else b Returns the greater of the given values. If there are multiple equal maximal values, returns the first of them.

`@SinceKotlin("1.4")` public expect fun <T : Comparable<T>> maxOf(a: T, vararg other: T): T Returns the greater of the given values.

`@SinceKotlin("1.4")` public expect fun maxOf(a: Byte, vararg other: Byte): Byte Returns the greater of the given values.

`@SinceKotlin("1.4")` public expect fun maxOf(a: Short, vararg other: Short): Short Returns the greater of the given values.

`@SinceKotlin("1.4")` public expect fun maxOf(a: Int, vararg other: Int): Int Returns the greater of the given values.

`@SinceKotlin("1.4")` public expect fun maxOf(a: Long, vararg other: Long): Long Returns the greater of the given values. If any value is NaN, returns NaN.

`@SinceKotlin("1.4")` public expect fun maxOf(a: Float, vararg other: Float): Float Returns the greater of the given values. If any value is NaN, returns NaN.

`@SinceKotlin("1.4")` public expect fun maxOf(a: Double, vararg other: Double): Double Returns the greater of the given values according to the order specified by the given [comparator]. If there are multiple equal maximal values, returns the first of them.

`@SinceKotlin("1.4")` public fun <T> maxOf(a: T, vararg other: T, comparator: Comparator<in T>): T var max = a for (e in other) if (comparator.compare(max, e) < 0) max = e return max Returns the smaller of two values.

```

 * \n * If values are equal, returns the first one.\n * \n @SinceKotlin("1.1")\n public expect fun <T : Comparable<T>> minOf(a: T, b: T): T\n\n /**\n * Returns the smaller of two values.\n\n * \n @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public expect inline fun minOf(a: Byte, b: Byte): Byte\n\n /**\n * Returns the smaller of two values.\n\n * \n @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public expect inline fun minOf(a: Short, b: Short): Short\n\n /**\n * Returns the smaller of two values.\n\n * \n @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public expect inline fun minOf(a: Int, b: Int): Int\n\n /**\n * Returns the smaller of two values.\n\n * \n @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public expect inline fun minOf(a: Long, b: Long): Long\n\n /**\n * Returns the smaller of two values.\n\n * \n * If either value is `NaN`, returns `NaN`.\n\n * \n @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public expect inline fun minOf(a: Float, b: Float): Float\n\n /**\n * Returns the smaller of two values.\n\n * \n * If either value is `NaN`, returns `NaN`.\n\n * \n @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public expect inline fun minOf(a: Double, b: Double): Double\n\n /**\n * Returns the smaller of three values.\n\n * \n * If there are multiple equal minimal values, returns the first of them.\n\n * \n @SinceKotlin("1.1")\n public expect fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T\n\n /**\n * Returns the smaller of three values.\n\n * \n @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public expect inline fun minOf(a: Byte, b: Byte, c: Byte): Byte\n\n /**\n * Returns the smaller of three values.\n\n * \n @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public expect inline fun minOf(a: Short, b: Short, c: Short): Short\n\n /**\n * Returns the smaller of three values.\n\n * \n @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public expect inline fun minOf(a: Int, b: Int, c: Int): Int\n\n /**\n * Returns the smaller of three values.\n\n * \n @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public expect inline fun minOf(a: Long, b: Long, c: Long): Long\n\n /**\n * Returns the smaller of three values.\n\n * \n * If any value is `NaN`, returns `NaN`.\n\n * \n @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public expect inline fun minOf(a: Float, b: Float, c: Float): Float\n\n /**\n * Returns the smaller of three values.\n\n * \n * If any value is `NaN`, returns `NaN`.\n\n * \n @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public expect inline fun minOf(a: Double, b: Double, c: Double): Double\n\n /**\n * Returns the smaller of three values according to the order specified by the given [comparator].\n\n * \n * If there are multiple equal minimal values, returns the first of them.\n\n * \n @SinceKotlin("1.1")\n public fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n    return minOf(a, minOf(b, c, comparator), comparator)\n}\n\n /**\n * Returns the smaller of two values according to the order specified by the given [comparator].\n\n * \n * If values are equal, returns the first one.\n\n * \n @SinceKotlin("1.1")\n public fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {\n    return if (comparator.compare(a, b) <= 0) a else b\n}\n\n /**\n * Returns the smaller of the given values.\n\n * \n * If there are multiple equal minimal values, returns the first of them.\n\n * \n @SinceKotlin("1.4")\n public expect fun <T : Comparable<T>> minOf(a: T, vararg other: T): T\n\n /**\n * Returns the smaller of the given values.\n\n * \n @SinceKotlin("1.4")\n public expect fun minOf(a: Byte, vararg other: Byte): Byte\n\n /**\n * Returns the smaller of the given values.\n\n * \n @SinceKotlin("1.4")\n public expect fun minOf(a: Short, vararg other: Short): Short\n\n /**\n * Returns the smaller of the given values.\n\n * \n @SinceKotlin("1.4")\n public expect fun minOf(a: Int, vararg other: Int): Int\n\n /**\n * Returns the smaller of the given values.\n\n * \n @SinceKotlin("1.4")\n public expect fun minOf(a: Long, vararg other: Long): Long\n\n /**\n * Returns the smaller of the given values.\n\n * \n * If any value is `NaN`, returns `NaN`.\n\n * \n @SinceKotlin("1.4")\n public expect fun minOf(a: Float, vararg other: Float): Float\n\n /**\n * Returns the smaller of the given values.\n\n * \n * If any value is `NaN`, returns `NaN`.\n\n * \n @SinceKotlin("1.4")\n public expect fun minOf(a: Double, vararg other: Double): Double\n\n /**\n * Returns the smaller of the given values according to the order specified by the given [comparator].\n\n * \n * If there are multiple equal minimal values, returns the first of them.\n\n * \n @SinceKotlin("1.4")\n public fun <T> minOf(a: T, vararg other: T, comparator: Comparator<in T>): T {\n    var min = a\n    for (e in other) if (comparator.compare(min, e) > 0) min = e\n    return min\n}\n\n\n */\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt

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file.\n *\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\nMapsKt\n")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a [List] containing all key-value pairs.\n
*\npublic fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {\n if (size == 0)\n return emptyList()\n
val iterator = entries.iterator()\n if (!iterator.hasNext())\n return emptyList()\n val first = iterator.next()\n if
(!iterator.hasNext())\n return listOf(first.toPair())\n val result = ArrayList<Pair<K, V>>(size)\n
result.add(first.toPair())\n do {\n result.add(iterator.next().toPair())\n } while (iterator.hasNext())\n return
result\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform]
function being invoked on each entry of original map.\n * \n * @sample
samples.collections.Maps.Transformations.flatMap\n *\npublic inline fun <K, V, R> Map<out K,
V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each entry of original map.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\nflatMapSequence\n")\npublic inline fun <K, V, R> Map<out K,
V>.flatMap(transform: (Map.Entry<K, V>) -> Sequence<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
entry of original map, to the given [destination].\n *\npublic inline
fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K,
V>) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each entry of original map, to the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\nflatMapSequenceTo\n")\npublic inline fun <K, V, R, C :
MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) ->
Sequence<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n
}\n return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform]
function\n * to each entry in the original
map.\n * \n * @sample samples.collections.Maps.Transformations.mapToList\n *\npublic inline fun <K, V, R>
Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {\n return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform]
function\n * to each entry in the original map.\n * \n * @sample
samples.collections.Maps.Transformations.mapNotNull\n *\npublic inline fun <K, V, R : Any> Map<out K,
V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Applies the given [transform] function to each entry in the original map\n * and appends
only the non-null results to the given [destination].\n *\npublic inline fun <K, V, R : Any, C : MutableCollection<in
R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {\n forEach {
element -> transform(element)?.let { destination.add(it) } }\n
return destination\n}\n\n/**\n * Applies the given [transform] function to each entry of the original map\n * and
appends the results to the given [destination].\n *\npublic inline fun <K, V, R, C : MutableCollection<in R>>
Map<out K, V>.mapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C {\n for (item in this)\n
destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns `true` if all entries match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n *\npublic inline fun <K, V>
Map<out K, V>.all(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n if (isEmpty()) return true\n for
(element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if map has at least
one entry.\n * \n * @sample samples.collections.Collections.Aggregates.any\n *\npublic fun <K, V> Map<out K,
V>.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one entry matches

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the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n * \npublic
inline fun <K, V> Map<out K, V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n  if (isEmpty())
return false\n  for (element in this) if (predicate(element)) return true\n  return false\n}\n\n/**\n * Returns the
number of entries in this map.\n * \n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.count():
Int {\n  return size\n}\n\n/**\n * Returns the number of entries matching the given [predicate].\n * \npublic inline
fun <K, V> Map<out K, V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {\n  if (isEmpty()) return 0\n
var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Performs the
given [action] on each entry.\n * \n@kotlin.internal.HidesMembers\npublic inline fun <K, V> Map<out K,
V>.forEach(action: (Map.Entry<K, V>) -> Unit): Unit {\n  for (element in this)
action(element)\n}\n\n@Deprecated("Use
maxByOrNull instead.", ReplaceWith("maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n  return maxByOrNull(selector)\n}\n\n/**\n
* Returns the first entry yielding the largest value of the given function or `null` if there are no entries.\n * \n *
@sample samples.collections.Collections.Aggregates.maxByOrNull\n
*\n@kotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out
K, V>.maxByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n  return
entries.maxByOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the map is empty.\n
*\n@kotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector:
(Map.Entry<K, V>) -> Double): Double {\n  return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value
among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the map is empty.\n
*\n@kotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector:
(Map.Entry<K, V>) -> Float): Float {\n  return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value
among all values produced by [selector] function\n * applied to each
entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@kotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxOf(selector: (Map.Entry<K, V>) -> R): R {\n  return entries.maxOf(selector)\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there
are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@kotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n  return
entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@kotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n  return
entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n    return entries.maxOfOrNull(selector)\n}\n\n/**\n *
Returns the largest
value according to the provided [comparator]\n * among all values produced by [selector] function applied to each
entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.maxOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n    return
entries.maxOfWith(comparator, selector)\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each entry in the map or `null` if there
are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K,
V>) -> R): R? {\n    return entries.maxOfWithOrNull(comparator, selector)\n}\n\n@Deprecated("Use
maxWithOrNull instead.",
ReplaceWith("maxWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxWith(comparator:
Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n    return maxWithOrNull(comparator)\n}\n\n/**\n *
Returns the first entry having the largest value according to the provided [comparator] or `null` if there are no
entries.\n * \n *\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n    return
entries.maxWithOrNull(comparator)\n}\n\n@Deprecated("Use minByOrNull instead.",
ReplaceWith("minByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline fun
<K, V, R : Comparable<R>> Map<out K, V>.minBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K,
V>? {\n    return minByOrNull(selector)\n}\n\n/**\n * Returns the first entry yielding the smallest value of the
given function or `null` if there are no entries.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out
K, V>.minByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n    return
entries.minByOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector:
(Map.Entry<K, V>) -> Double): Double
{\n    return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by
[selector] function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is
`NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector:
(Map.Entry<K, V>) -> Float): Float {\n    return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * @throws
NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>>

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Map<out K, V>.minOf(selector: (Map.Entry<K, V>) -> R): R {\n  return entries.minOf(selector)\n}\n\n/**\n *
Returns the smallest value among all values produced by [selector] function\n * applied to each entry in the map or
`null` if there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n  return
entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <K, V> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n  return
entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.minOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n  return entries.minOfOrNull(selector)\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <K, V, R> Map<out K, V>.minOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) ->
R): R {\n  return entries.minOfWith(comparator, selector)\n}\n\n/**\n * Returns the smallest value according to the
provided [comparator]\n * among all values produced by [selector] function applied to each entry in the map or
`null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.minOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n  return
entries.minOfWithOrNull(comparator, selector)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun <K,
V> Map<out K, V>.minWith(comparator: Comparator<in
Map.Entry<K, V>>): Map.Entry<K, V>? {\n  return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first
entry having the smallest value according to the provided [comparator] or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.minWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n  return
entries.minWithOrNull(comparator)\n}\n\n/**\n * Returns `true` if the map has no entries.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\n@kotlin.internal.InlineOnly\npublic fun <K, V> Map<out K, V>.none(): Boolean {\n
return isEmpty()\n}\n\n/**\n * Returns `true` if no entries match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n  if (isEmpty()) return true\n  for (element in
this) if (predicate(element)) return false\n  return
true\n}\n\n/**\n * Performs the given [action] on each entry and returns the map itself afterwards.\n
*\n@SinceKotlin("1.1")\npublic inline fun <K, V, M : Map<out K, V>> M.onEach(action: (Map.Entry<K, V>) ->
Unit): M {\n  return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on
each entry, providing sequential index with the entry,\n * and returns the map itself afterwards.\n * @param [action]
function that takes the index of an entry and the entry itself\n * and performs the action on the entry.\n
*\n@SinceKotlin("1.4")\npublic inline fun <K, V, M : Map<out K, V>> M.onEachIndexed(action: (index: Int,

```



```

*public inline fun <T> Sequence<T>.firstOrNull(predicate: (T) -> Boolean): T? {
    for (element in this) if (predicate(element)) return element
    return null
}
* Returns first index of [element], or -1 if the sequence does not contain element.
* The operation is _terminal_.
public fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOf(element: T): Int {
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (element == item) return index
        index++
    }
    return -1
}
* Returns index of the first element matching the given [predicate], or -1 if the sequence does not contain such element.
* The operation is _terminal_.
public inline fun <T> Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (predicate(item)) return index
        index++
    }
    return -1
}
* Returns index of the last element matching the given [predicate], or -1 if the sequence does not contain such element.
* The operation is _terminal_.
public inline fun <T> Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {
    var lastIndex = -1
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (predicate(item)) lastIndex = index
        index++
    }
    return lastIndex
}
* Returns the last element.
* The operation is _terminal_.
* @throws NoSuchElementException if the sequence is empty.
* @sample samples.collections.Collections.Elements.last
public fun <T> Sequence<T>.last(): T {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException("Sequence is empty.")
    var last = iterator.next()
    while (iterator.hasNext()) last = iterator.next()
    return last
}
* Returns the last element matching the given [predicate].
* The operation is _terminal_.
* @throws NoSuchElementException if no such element is found.
* @sample samples.collections.Collections.Elements.last
public inline fun <T> Sequence<T>.last(predicate: (T) -> Boolean): T {
    var last: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            last = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Sequence contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST") return last as T
}
* Returns last index of [element], or -1 if the sequence does not contain element.
* The operation is _terminal_.
public fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element: T): Int {
    var lastIndex = -1
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (element == item) lastIndex = index
        index++
    }
    return lastIndex
}
* Returns the last element, or `null` if the sequence is empty.
* The operation is _terminal_.
* @sample samples.collections.Collections.Elements.last
public fun <T> Sequence<T>.lastOrNull(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var last = iterator.next()
    while (iterator.hasNext()) last = iterator.next()
    return last
}
* Returns the last element matching the given [predicate], or `null` if no such element was found.
* The operation is _terminal_.
* @sample samples.collections.Collections.Elements.last
public inline fun <T> Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {
    var last: T? = null
    for (element in this) {
        if (predicate(element)) last = element
    }
    return last
}
* Returns the single element, or throws an exception if the sequence is empty or has more than one element.
* The operation is _terminal_.
public fun <T> Sequence<T>.single(): T {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException("Sequence is empty.")
    val single = iterator.next()
    if (iterator.hasNext()) throw IllegalArgumentException("Sequence has more than one element.")
    return single
}
* Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
* The operation is _terminal_.
public inline fun <T> Sequence<T>.single(predicate: (T) -> Boolean): T {
    var single: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Sequence contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Sequence contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST") return single as T
}
* Returns single element, or `null` if the

```

```

sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T>
Sequence<T>.singleOrNull(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext())\n        return null\n    val
single = iterator.next()\n    if (iterator.hasNext())\n        return null\n    return single\n}\n\n/**\n * Returns
the single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.singleOrNull(predicate: (T) ->
Boolean): T? {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element))
{\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return
null\n    return single\n}\n\n/**\n * Returns a sequence containing all elements except first [n] elements.\n *\n * The
operation is _intermediate_ and _stateless_.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n *
@sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.drop(n: Int):
Sequence<T> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return when {\n        n
== 0 -> this\n        this is DropTakeSequence
-> this.drop(n)\n        else -> DropSequence(this, n)\n    }\n}\n\n/**\n * Returns a sequence containing all elements
except first elements that satisfy the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n *\n
*\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T>
Sequence<T>.dropWhile(predicate: (T) -> Boolean): Sequence<T> {\n    return DropWhileSequence(this,
predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the given [predicate].\n *\n * The
operation is _intermediate_ and _stateless_.\n *\n * @sample samples.collections.Collections.Filtering.filter\n
*/\npublic fun <T> Sequence<T>.filter(predicate: (T) -> Boolean): Sequence<T> {\n    return
FilteringSequence(this, true, predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the
given [predicate].\n *\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of
predicate evaluation on the element.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic fun <T> Sequence<T>.filterIndexed(predicate:
(index: Int, T) -> Boolean): Sequence<T> {\n    // TODO: Rewrite with generalized MapFilterIndexingSequence\n    return
TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) }), {
it.value })\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C : MutableCollection<in T>>
Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n    forEachIndexed {
index,
element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n *
Returns a sequence containing all elements that are instances of specified type parameter R.\n *\n * The operation is
_intermediate_ and _stateless_.\n *\n * @sample samples.collections.Collections.Filtering.filterIsInstance\n
*/\npublic inline fun <reified R> Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer R> {\n    @Suppress("UNCHECKED_CAST")\n    return filter { it is R } as Sequence<R>\n}\n\n/**\n * Appends all
elements that are instances of specified type parameter R to the given [destination].\n *\n * The operation is
_terminal_.\n *\n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo\n */\npublic inline fun
<reified R, C : MutableCollection<in R>> Sequence<*>.filterIsInstanceTo(destination: C): C {\n    for (element in
this) if (element is R) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a sequence
containing all elements not matching the given [predicate].\n *\n * The operation is _intermediate_ and
_stateless_.\n *\n * @sample samples.collections.Collections.Filtering.filter\n */\npublic fun <T>
Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {\n    return FilteringSequence(this, false,
predicate)\n}\n\n/**\n * Returns a sequence containing all elements that are not `null`.\n *\n * The operation is
_intermediate_ and _stateless_.\n *\n * @sample samples.collections.Collections.Filtering.filterNotNull\n
*/\npublic fun <T : Any> Sequence<T?>.filterNotNull(): Sequence<T> {\n    @Suppress("UNCHECKED_CAST")\n    return filterNot { it == null } as Sequence<T>\n}\n\n/**\n * Appends all

```



one gets added to the map. The returned map preserves the entry iteration order of the original sequence.

The operation is `_terminal_`.

`@sample samples.collections.Collections.Transformations.associate`

```

public inline fun <T, K, V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {
    return associateTo(LinkedHashMap<K, V>(), transform)
}

```

Returns a [Map] containing the elements from the given sequence indexed by the key returned from [keySelector] function applied to each element. If any two elements would have the same key returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration order of the original sequence.

The operation is `_terminal_`.

`@sample samples.collections.Collections.Transformations.associateBy`

```

public inline fun <T, K> Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {
    return associateByTo(LinkedHashMap<K, T>(), keySelector)
}

```

Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given sequence. If any two elements would have the same key returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration order of the original sequence.

The operation is `_terminal_`.

`@sample samples.collections.Collections.Transformations.associateByWithValueTransform`

```

public inline fun <T, K, V> Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {
    return associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)
}

```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given sequence and value is the element itself. If any two elements would have the same key returned by [keySelector] the last one gets added to the map. The operation is `_terminal_`.

`@sample samples.collections.Collections.Transformations.associateByTo`

```

public inline fun <T, K, M : MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given sequence. If any two elements would have the same key returned by [keySelector] the last one gets added to the map. The operation is `_terminal_`.

`@sample samples.collections.Collections.Transformations.associateByToWithValueTransform`

```

public inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given sequence. If any of two pairs would have the same key the last one gets added to the map. The operation is `_terminal_`.

`@sample samples.collections.Collections.Transformations.associateTo`

```

public inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

```

Returns a [Map] where keys are elements from the given sequence and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original sequence. The operation is `_terminal_`.

`@sample samples.collections.Collections.Transformations.associateWith`

```

@SinceKotlin("1.3")
public inline fun <K, V> Sequence<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {
    val result = LinkedHashMap<K, V>()
    return associateWithTo(result, valueSelector)
}

```

Populates and returns the [destination] mutable map with key-value pairs for each element of the given sequence, where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map. The operation is `_terminal_`.

`@sample samples.collections.Collections.Transformations.associateWithTo`

```

@SinceKotlin("1.3")
public inline fun <K, V, M : MutableMap<in K, in V>> Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M

```







```

*^public fun <T> Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {\n  return
IndexingSequence(this)\n}\n\n/**\n * Returns a sequence containing only distinct elements from the given
sequence.\n * \n * Among equal elements of the given sequence, only the first one will be present in the resulting
sequence.\n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n
*\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^public fun <T>
Sequence<T>.distinct(): Sequence<T> {\n  return this.distinctBy { it }\n}\n\n/**\n * Returns a sequence
containing only elements from the given sequence\n * having distinct keys returned by the given [selector]
function.\n * \n * Among elements of the given sequence with equal keys, only the first one will be present in the
resulting sequence.\n * The elements in the resulting sequence are in the same order as they
were in the source sequence.\n * \n * The operation is _intermediate_ and _stateful_.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^public fun <T, K>
Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {\n  return DistinctSequence(this, selector)\n}\n\n/**\n
* Returns a new [MutableSet] containing all distinct elements from the given sequence.\n * \n * The returned set
preserves the element iteration order of the original sequence.\n * \n * The operation is _terminal_.\n *^public fun
<T> Sequence<T>.toMutableSet(): MutableSet<T> {\n  val set = LinkedHashSet<T>()\n  for (item in this)
set.add(item)\n  return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * The
operation is _terminal_.\n * \n * @sample samples.collections.Aggregates.all\n *^public inline fun
<T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {\n  for (element in this) if (!predicate(element)) return
false\n
return true\n}\n\n/**\n * Returns `true` if sequence has at least one element.\n * \n * The operation is
_terminal_.\n * \n * @sample samples.collections.Aggregates.any\n *^public fun <T>
Sequence<T>.any(): Boolean {\n  return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element
matches the given [predicate].\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Aggregates.anyWithPredicate\n *^public inline fun <T>
Sequence<T>.any(predicate: (T) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
true\n  return false\n}\n\n/**\n * Returns the number of elements in this sequence.\n * \n * The operation is
_terminal_.\n *^public fun <T> Sequence<T>.count(): Int {\n  var count = 0\n  for (element in this)
checkCountOverflow(++count)\n  return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n * \n * The operation is _terminal_.\n *^public inline
fun <T> Sequence<T>.count(predicate: (T) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) checkCountOverflow(++count)\n  return count\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n *
Returns the specified [initial] value if the sequence is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n * \n * The operation is _terminal_.\n
*^public inline fun <T, R> Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n  var accumulator =
initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n
* Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator
value and each element with its index in the original sequence.\n
*\n * Returns the specified [initial] value if the sequence is empty.\n * \n * @param [operation] function that takes
the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n * \n * The operation is _terminal_.\n *^public inline fun <T, R> Sequence<T>.foldIndexed(initial: R,
operation: (index: Int, acc: R, T) -> R): R {\n  var index = 0\n  var accumulator = initial\n  for (element in this)
accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n  return accumulator\n}\n\n/**\n
* Performs the given [action] on each element.\n * \n * The operation is _terminal_.\n *^public inline fun <T>
Sequence<T>.forEach(action: (T) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs
the given [action] on each element, providing sequential index with the element.\n * \n * @param [action] function that
takes the index of an element and the element itself\n * and performs the action

```

```

on the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T>
Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(checkIndexOverflow(index++), item)\n}\n\n@Deprecated("Use maxOrNull instead.\",
ReplaceWith("maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\n@SinceKotlin("1.1")\npublic
fun Sequence<Double>.max(): Double? {\n    return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.\",
ReplaceWith("maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\n@SinceKotlin("1.1")\npublic
fun Sequence<Float>.max(): Float? {\n    return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.\",
ReplaceWith("maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun <T :
Comparable<T>> Sequence<T>.max(): T? {\n    return maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull
instead.\", ReplaceWith("maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince
= "1.4")\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) -> R): T? {\n    return
maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or
`null` if there are no elements.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <T, R :
Comparable<R>> Sequence<T>.maxByOrNull(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var maxElem = iterator.next()\n    if (!iterator.hasNext()) return maxElem\n    var
maxValue = selector(maxElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (maxValue <
v) {\n            maxElem = e\n            maxValue = v\n        }\n    } while (iterator.hasNext())\n    return
maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each
element in the sequence.\n *\n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n *\n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) ->
Double): Double {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var
maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the sequence.\n *\n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n * @throws NoSuchElementException
if the sequence is empty.\n *\n * The operation is _terminal_.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) ->
Float): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var
maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the sequence.\n *\n * @throws
NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline
fun <T, R : Comparable<R>> Sequence<T>.maxOf(selector: (T) -> R): R {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) throw NoSuchElementException()\n    var maxValue = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (maxValue < v) {\n            maxValue = v\n
        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each element in the sequence or `null` if there are no elements.\n *\n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n * The operation is _terminal_.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOfOrNull(selector:
(T) -> Double): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n

```

```

    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * The operation is _terminal_.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOrNull(selector: (T) -> Float): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * The operation is _terminal_.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the sequence.\n * @throws NoSuchElementException if the sequence is empty.\n * The operation is _terminal_.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Sequence<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the sequence or `null` if there are no elements.\n * The operation is _terminal_.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Sequence<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * If any of elements is `NaN` returns `NaN`.\n * The operation is _terminal_.\n */\n@SinceKotlin("1.4")\npublic fun Sequence<Double>.maxOrNull(): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * If any of elements is `NaN` returns `NaN`.\n * The operation is _terminal_.\n */\n@SinceKotlin("1.4")\npublic fun Sequence<Float>.maxOrNull(): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * The operation is _terminal_.\n */\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Sequence<T>.maxOrNull(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (max < e) max = e\n    }\n    return max\n}\n\n@Deprecated("Use maxWithOrNull instead.",

```

```

ReplaceWith("\\maxWithOrNull(comparator)"))\\n@DeprecatedSinceKotlin(warningSince = \\1.4\\)\\npublic fun
<T> Sequence<T>.maxWith(comparator: Comparator<in
T>): T? {\\n    return maxWithOrNull(comparator)\\n}\\n\\n/**\\n * Returns the first element having the largest value
according to the provided [comparator] or `null` if there are no elements.\\n *\\n * The operation is _terminal_.\\n
*\\n@SinceKotlin(\\1.4\\)\\npublic fun <T> Sequence<T>.maxWithOrNull(comparator: Comparator<in T>): T? {\\n
    val iterator = iterator()\\n    if (!iterator.hasNext()) return null\\n    var max = iterator.next()\\n    while
(iterator.hasNext()) {\\n        val e = iterator.next()\\n        if (comparator.compare(max, e) < 0) max = e\\n    }\\n
    return max\\n}\\n}\\n@Deprecated(\\Use minOrNull instead.\\),
ReplaceWith("\\minOrNull()")\\n@DeprecatedSinceKotlin(warningSince = \\1.4\\)\\n@SinceKotlin(\\1.1\\)\\npublic
fun Sequence<Double>.min(): Double? {\\n    return minOrNull()\\n}\\n}\\n@Deprecated(\\Use minOrNull instead.\\),
ReplaceWith("\\minOrNull()")\\n@DeprecatedSinceKotlin(warningSince = \\1.4\\)\\n@SinceKotlin(\\1.1\\)\\npublic
fun Sequence<Float>.min(): Float? {\\n    return
    minOrNull()\\n}\\n}\\n@Deprecated(\\Use minOrNull instead.\\),
ReplaceWith("\\minOrNull()")\\n@DeprecatedSinceKotlin(warningSince = \\1.4\\)\\npublic fun <T :
Comparable<T>> Sequence<T>.min(): T? {\\n    return minOrNull()\\n}\\n}\\n@Deprecated(\\Use minByOrNull
instead.\\), ReplaceWith("\\minByOrNull(selector)")\\n@DeprecatedSinceKotlin(warningSince = \\1.4\\)\\npublic
inline fun <T, R : Comparable<R>> Sequence<T>.minBy(selector: (T) -> R): T? {\\n    return
minByOrNull(selector)\\n}\\n}\\n/**\\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\\n *\\n * The operation is _terminal_.\\n *\\n * @sample
samples.collections.Collections.Aggregates.minByOrNull\\n *\\n@SinceKotlin(\\1.4\\)\\npublic inline fun <T, R :
Comparable<R>> Sequence<T>.minByOrNull(selector: (T) -> R): T? {\\n    val iterator = iterator()\\n    if
(!iterator.hasNext()) return null\\n    var minElem = iterator.next()\\n    if (!iterator.hasNext()) return minElem\\n    var
minValue
    = selector(minElem)\\n    do {\\n        val e = iterator.next()\\n        val v = selector(e)\\n        if (minValue > v) {\\n
            minElem = e\\n            minValue = v\\n        }\\n    } while (iterator.hasNext())\\n    return minElem\\n}\\n}\\n/**\\n *
Returns the smallest value among all values produced by [selector] function\\n * applied to each element in the
sequence.\\n *\\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\\n *\\n *
@throws NoSuchElementException if the sequence is empty.\\n *\\n * The operation is _terminal_.\\n
*\\n@SinceKotlin(\\1.4\\)\\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\\n@OverloadResolution
ByLambdaReturnType\\n@kotlin.internal.InlineOnly\\npublic inline fun <T> Sequence<T>.minOf(selector: (T) ->
Double): Double {\\n    val iterator = iterator()\\n    if (!iterator.hasNext()) throw NoSuchElementException()\\n    var
minValue = selector(iterator.next())\\n    while (iterator.hasNext()) {\\n        val v =
        selector(iterator.next())\\n        minValue = minOf(minValue, v)\\n    }\\n    return minValue\\n}\\n}\\n/**\\n * Returns the
smallest value among all values produced by [selector] function\\n * applied to each element in the sequence.\\n *\\n *
If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\\n *\\n * @throws
NoSuchElementException if the sequence is empty.\\n *\\n * The operation is _terminal_.\\n
*\\n@SinceKotlin(\\1.4\\)\\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\\n@OverloadResolution
ByLambdaReturnType\\n@kotlin.internal.InlineOnly\\npublic inline fun <T> Sequence<T>.minOf(selector: (T) ->
Float): Float {\\n    val iterator = iterator()\\n    if (!iterator.hasNext()) throw NoSuchElementException()\\n    var
minValue = selector(iterator.next())\\n    while (iterator.hasNext()) {\\n        val v = selector(iterator.next())\\n
        minValue = minOf(minValue, v)\\n    }\\n    return minValue\\n}\\n}\\n/**\\n * Returns the smallest value among all
values
    produced by [selector] function\\n * applied to each element in the sequence.\\n *\\n * @throws
NoSuchElementException if the sequence is empty.\\n *\\n * The operation is _terminal_.\\n
*\\n@SinceKotlin(\\1.4\\)\\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\\n@OverloadResolution
ByLambdaReturnType\\n@kotlin.internal.InlineOnly\\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.minOf(selector: (T) -> R): R {\\n    val iterator = iterator()\\n    if (!iterator.hasNext()) throw
NoSuchElementException()\\n    var minValue = selector(iterator.next())\\n    while (iterator.hasNext()) {\\n        val v

```

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= selector(iterator.next())\n    if (minValue > v) {\n        minValue = v\n    }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n
*\n * The operation is _terminal_.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOrNull(selector:
(T) -> Double): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minValue =
selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue =
minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * The operation is _terminal_.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Sequence<T>.minOrNull(selector: (T) -> Float): Float? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n
val v = selector(iterator.next())\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n *
Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
sequence or `null` if there are no elements.\n * \n * The operation is _terminal_.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.minOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return
null\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v =
selector(iterator.next())\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced
by [selector] function applied to each element in the sequence.\n * \n * @throws NoSuchElementException if the sequence
is empty.\n * \n * The operation is _terminal_.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.minWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) throw NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(minValue, v) > 0) {\n
minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest
value according to the provided [comparator]\n * among all values produced by [selector] function applied to each
element in the sequence or `null` if there are no elements.\n * \n * The operation is _terminal_.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.minWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    val iterator =
iterator()\n    if (!iterator.hasNext()) return null\n    var minValue = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(minValue, v) > 0) {\n
minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are
no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n
*/\n\n@SinceKotlin("1.4")\npublic fun
Sequence<Double>.minOrNull(): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n
var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        min = minOf(min, e)\n
}\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of
elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n
*/\n\n@SinceKotlin("1.4")\npublic fun

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Sequence<Float>.minOrNull(): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var\n    min = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        min = minOf(min, e)\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * The operation is _terminal_.\n *\n * @SinceKotlin("1.4")\n */\npublic fun <T : Comparable<T>> Sequence<T>.minOrNull(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext())\n        return null\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (min >\n        e) min = e\n    }\n    return min\n}\n\n@Deprecated("Use minOrNull instead.")\nReplaceWith("minOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun\n<T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {\n    return\n    minOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the\n * provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n *\n * @SinceKotlin("1.4")\n */\npublic fun <T> Sequence<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    while\n    (iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return\n    min\n}\n\n/**\n * Returns `true` if the sequence has no elements.\n *\n * The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Aggregates.none\n */\npublic\nfun <T> Sequence<T>.none(): Boolean {\n    return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements\n * match the given [predicate].\n *\n * The operation is _terminal_.\n *\n * @sample\n * samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T>\nSequence<T>.none(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return\n    false\n    return true\n}\n\n/**\n * Returns a sequence which performs the given [action] on each element of the\n * original sequence as they pass through it.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @SinceKotlin("1.1")\n */\npublic fun <T> Sequence<T>.onEach(action: (T) -> Unit): Sequence<T> {\n    return\n    map {\n        action(it)\n        it\n    }\n}\n\n/**\n * Returns a sequence which performs the given [action] on each\n * element of the original sequence\n * as they pass through it.\n *\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @SinceKotlin("1.4")\n */\npublic fun <T> Sequence<T>.onEachIndexed(action: (index: Int, T) -> Unit):\nSequence<T> {\n    return mapIndexed { index, element ->\n        action(index, element)\n        element\n    }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to\n * current accumulator value and each element.\n *\n * Throws an exception if this sequence is empty. If the sequence\n * can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is\n * empty.\n *\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates\n * the next accumulator value.\n *\n * The operation is _terminal_.\n *\n * @sample\n * samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Sequence<T>.reduce(operation: (acc: S, T) -> S): S {\n    val iterator =\n    this.iterator()\n    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty sequence can't be\n    reduced.")\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator =\n        operation(accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with\n * the first element and applying [operation] from left to right\n * to current accumulator value and each element with\n * its index in the original sequence.\n *\n * Throws an exception if this sequence is empty. If the sequence can be\n * empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is\n * empty.\n *\n * @param [operation] function that takes the index of an element, current accumulator value and the\n * element itself,\n * and calculates the next accumulator value.\n *\n * The operation\n * is _terminal_.\n *\n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S>\nSequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if\n    (!iterator.hasNext()) throw UnsupportedOperationException("Empty sequence can't be reduced.")\n    var index =\n    1\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator =

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operation(checkIndexOverflow(index++), accumulator, iterator.next())\n } \n return accumulator\n}\n\n/**\n *
Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element with its index in the original sequence.\n * \n * Returns `null` if the sequence is
empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the
element itself,\n * and calculates the next accumulator value.\n * \n * The operation is _terminal_.\n
* \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n\n@SinceKotlin("1.4")\npublic
inline fun <S, T : S> Sequence<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n val
iterator = this.iterator()\n if (!iterator.hasNext()) return null\n var index = 1\n var accumulator: S =
iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++),
accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n *
Returns `null` if the sequence is empty.\n * \n * @param [operation] function that takes current accumulator value
and an element,\n * and calculates the next accumulator value.\n * \n * The operation is _terminal_.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
inline fun <S, T : S> Sequence<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n val iterator = this.iterator()\n
if (!iterator.hasNext()) return null\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n
accumulator = operation(accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Returns a sequence
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * The
[initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function
later because of sequence's lazy nature.\n * \n * @param [operation] function that takes current accumulator value
and an
element, and calculates the next accumulator value.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n *
@sample samples.collections.Collections.Aggregates.runningFold\n */\n\n@SinceKotlin("1.4")\npublic fun <T, R>
Sequence<T>.runningFold(initial: R, operation: (acc: R, T) -> R): Sequence<R> {\n return sequence {\n
yield(initial)\n var accumulator = initial\n for (element in this@runningFold) {\n accumulator =
operation(accumulator, element)\n yield(accumulator)\n }\n }\n}\n\n/**\n * Returns a sequence
containing successive accumulation values generated by applying [operation] from left to right\n * to each element,
its index in the original sequence and current accumulator value that starts with [initial] value.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting sequence.\n * The [initial] value should also be immutable (or
should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n *
\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element
itself, and calculates the next accumulator value.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n *
@sample samples.collections.Collections.Aggregates.runningFold\n */\n\n@SinceKotlin("1.4")\npublic fun <T, R>
Sequence<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {\n return
sequence {\n yield(initial)\n var index = 0\n var accumulator = initial\n for (element in
this@runningFoldIndexed) {\n accumulator = operation(checkIndexOverflow(index++), accumulator,
element)\n yield(accumulator)\n }\n }\n}\n\n/**\n * Returns a sequence containing successive
accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with the first element of this sequence.\n * \n * Note that `acc` value
passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting
sequence.\n * \n * @param [operation] function that takes current accumulator value and the element, and calculates
the next accumulator value.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <S, T : S>

```



applied to each element in the sequence.

```

    * The operation is _terminal_.
    public inline fun <T>
    Sequence<T>.sumByDouble(selector: (T) -> Double): Double {
        var sum: Double = 0.0
        for (element in this)
            sum += selector(element)
        return sum
    }
    * Returns the sum of all values produced by
    [selector] function applied to each element in the sequence.
    * The operation is _terminal_.
    * SinceKotlin("1.4")
    @OptIn(kotlin.experimental.ExperimentalTypeInference::class)
    @OverloadResolution
    ByLambdaReturnType
    @kotlin.jvm.JvmName("sumOfDouble")
    @kotlin.internal.InlineOnly
    public
    inline fun <T> Sequence<T>.sumOf(selector: (T) -> Double): Double {
        var sum: Double = 0.toDouble()
        for (element in this)
            sum += selector(element)
        return sum
    }
    * Returns the sum of all values
    produced by [selector] function applied to each element in the sequence.
    * The operation is _terminal_.
    * SinceKotlin("1.4")
    @OptIn(kotlin.experimental.ExperimentalTypeInference::class)
    @OverloadResolution
    ByLambdaReturnType
    @kotlin.jvm.JvmName("sumOfInt")
    @kotlin.internal.InlineOnly
    public inline fun <T>
    Sequence<T>.sumOf(selector: (T) -> Int): Int {
        var sum: Int = 0.toInt()
        for (element in this)
            sum +=
            selector(element)
        return sum
    }
    * Returns the sum of all values produced by [selector] function
    applied to each element in the sequence.
    * The operation is _terminal_.
    * SinceKotlin("1.4")
    @OptIn(kotlin.experimental.ExperimentalTypeInference::class)
    @OverloadResolution
    ByLambdaReturnType
    @kotlin.jvm.JvmName("sumOfLong")
    @kotlin.internal.InlineOnly
    public
    inline fun <T> Sequence<T>.sumOf(selector: (T) -> Long): Long {
        var sum: Long = 0.toLong()
        for (element in this)
            sum += selector(element)
        return sum
    }
    * Returns the sum of all values
    produced by [selector] function applied to each element in the sequence.
    * The operation is _terminal_.
    * SinceKotlin("1.4")
    @OptIn(kotlin.experimental.ExperimentalTypeInference::class)
    @OverloadResolution
    ByLambdaReturnType
    @kotlin.jvm.JvmName("sumOfUInt")
    @ExperimentalUnsignedTypes
    @kotlin.internal
    .InlineOnly
    public inline fun <T> Sequence<T>.sumOf(selector: (T) -> UInt): UInt {
        var sum: UInt =
        0.toUInt()
        for (element in this)
            sum += selector(element)
        return sum
    }
    * Returns the
    sum of all values produced by [selector] function
    applied to each element in the sequence.
    * The operation is _terminal_.
    * SinceKotlin("1.4")
    @OptIn(kotlin.experimental.ExperimentalTypeInference::class)
    @OverloadResolution
    ByLambdaReturnType
    @kotlin.jvm.JvmName("sumOfULong")
    @ExperimentalUnsignedTypes
    @kotlin.inter
    nal.InlineOnly
    public inline fun <T> Sequence<T>.sumOf(selector: (T) -> ULong): ULong {
        var sum: ULong
        = 0.toULong()
        for (element in this)
            sum += selector(element)
        return sum
    }
    * Returns
    an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are
    any `null` elements.
    * The operation is _intermediate_ and _stateless_.
    * public fun <T : Any>
    Sequence<T?>.requireNonNulls(): Sequence<T> {
        return map { it ?: throw IllegalArgumentException("null
        element found in $this.") }
    }
    * Splits this sequence into a sequence of lists each not exceeding the given
    [size].
    * The last list in the
    resulting sequence may have less elements than the given [size].
    * @param size the number of elements to
    take in each list, must be positive and can be greater than the number of elements in this sequence.
    * The
    operation is _intermediate_ and _stateful_.
    * @sample
    samples.collections.Collections.Transformations.chunked
    * SinceKotlin("1.2")
    public fun <T>
    Sequence<T>.chunked(size: Int): Sequence<List<T>> {
        return windowed(size, size, partialWindows =
        true)
    }
    * Splits this sequence into several lists each not exceeding the given [size]
    * and applies the
    given [transform] function to an each.
    * @return sequence of results of the [transform] applied to an each
    list.
    * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.
    * You should not store it or allow it to escape in some way, unless you made a snapshot of it.
    * The last list may
    have less elements than the given [size].
    * @param size the number of elements to take in each list, must be positive and can be greater than the number
    of elements in this sequence.
    * The operation is _intermediate_ and _stateful_.
    * @sample
    samples.text.Strings.chunkedTransform
    * SinceKotlin("1.2")
    public fun <T, R>
    Sequence<T>.chunked(size: Int, transform: (List<T>) -> R): Sequence<R> {
        return windowed(size, size,

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partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a sequence containing all elements of the
original sequence without the first occurrence of the given [element].\n * The operation is _intermediate_ and
_stateless_.\n */\npublic operator fun <T> Sequence<T>.minus(element: T): Sequence<T> {\n    return object:
Sequence<T> {\n        override fun iterator(): Iterator<T> {\n            var removed = false\n            return
this@minus.filter { if (!removed && it == element) { removed = true; false } else true }.iterator()\n        }\n    }\n}\n\n/**\n * Returns
a sequence containing all elements of original sequence except the elements contained in the given [elements]
array.\n * Note that the source sequence and the array being subtracted are iterated only when an `iterator` is
requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect
the result.\n * The [elements] array may be converted to a [HashSet] to speed up the operation, thus the
elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between
successive invocations.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Array<out T>): Sequence<T> {\n    if (elements.isEmpty()) return this\n    return
object: Sequence<T> {\n        override fun iterator(): Iterator<T> {\n            val other = elements.toHashSet()\n            return this@minus.filterNot { it in other }.iterator()\n        }\n    }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given
[elements] collection.\n * Note that the source sequence and the collection being subtracted are iterated only
when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to
`iterator` may affect the result.\n * The [elements] collection may be converted to a [HashSet] to speed up the
operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that
doesn't change between successive invocations.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Iterable<T>): Sequence<T> {\n    return object: Sequence<T> {\n        override fun iterator(): Iterator<T> {\n            val other = elements.convertToSetForSetOperation()\n            if (other.isEmpty())\n                return this@minus.iterator()\n            else\n                return this@minus.filterNot { it in other }.iterator()\n        }\n    }\n}\n\n/**\n * Returns a sequence
containing all elements of original sequence except the elements contained in the given [elements] sequence.\n *
Note that the source sequence and the sequence being subtracted are iterated only when an `iterator` is requested
from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n
*\n * The operation is _intermediate_ for this sequence and _terminal_ and _stateful_ for the [elements] sequence.\n
*\n * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are
required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive
invocations.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {\n    return object: Sequence<T> {\n        override fun iterator(): Iterator<T> {\n            val other = elements.toHashSet()\n            if (other.isEmpty())\n                return this@minus.iterator()\n            else\n                return this@minus.filterNot { it in other }.iterator()\n        }\n    }\n}\n\n/**\n * Returns a sequence
containing all elements of the original sequence without the first occurrence of the given [element].\n * The
operation is _intermediate_ and _stateless_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Sequence<T>.minusElement(element: T): Sequence<T> {\n    return minus(element)\n}\n\n/**\n * Splits the
original sequence into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n
* while *second* list contains elements for which [predicate] yielded `false`.\n * The operation is _terminal_.\n
*\n * @sample samples.collections.Sequences.Transformations.partition\n */\npublic inline fun <T>
Sequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n    val first = ArrayList<T>()\n    val second = ArrayList<T>()\n    for (element in this) {\n        if (predicate(element))\n            first.add(element)\n        else {\n            second.add(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence and then
the given [element].\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T>
Sequence<T>.plus(element: T): Sequence<T> {\n    return sequenceOf(this,
sequenceOf(element)).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and

```

then all elements of the given [elements] array.  
Note that the source sequence and the array being added are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.  
The operation is `_intermediate_` and `_stateless_`.  
public operator

```
fun <T> Sequence<T>.plus(elements: Array<out T>): Sequence<T> {  
    return this.plus(elements.asList())  
}
```

Returns a sequence containing all elements of original sequence and then all elements of the given [elements] collection.  
Note that the source sequence and the collection being added are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.  
The operation is `_intermediate_` and `_stateless_`.  
public operator fun <T> Sequence<T>.plus(elements: Iterable<T>): Sequence<T> {  
 return sequenceOf(this, elements.asSequence()).flatten()  
}

Returns a sequence containing all elements of original sequence and then all elements of the given [elements] sequence.  
Note that the source sequence and the sequence being added are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive

calls to `iterator` may affect the result.  
The operation is `_intermediate_` and `_stateless_`.  
public operator fun <T> Sequence<T>.plus(elements: Sequence<T>): Sequence<T> {  
 return sequenceOf(this, elements).flatten()  
}

Returns a sequence containing all elements of the original sequence and then the given [element].  
The operation is `_intermediate_` and `_stateless_`.  
@kotlin.internal.InlineOnly  
public inline fun <T> Sequence<T>.plusElement(element: T): Sequence<T> {  
 return plus(element)  
}

Returns a sequence of snapshots of the window of the given [size] sliding along this sequence with the given [step], where each snapshot is a list.  
Several last lists may have less elements than the given [size].  
Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.  
@param size the number of elements to take in each window  
@param step the number of elements to move the window forward by on an each step, by default 1  
@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved  
@sample samples.collections.Sequences.Transformations.takeWindows  
@SinceKotlin("1.2")  
public fun <T> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<List<T>> {  
 return windowedSequence(size, step, partialWindows, reuseBuffer = false)  
}

Returns a sequence of results of applying the given [transform] function to an each list representing a view over the window of the given [size] sliding along this sequence with the given [step].  
Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.  
You should not store it or allow it to escape in some way, unless you made a snapshot of it.  
Several last lists may have less elements

than the given [size].  
Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.  
@param size the number of elements to take in each window  
@param step the number of elements to move the window forward by on an each step, by default 1  
@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved  
@sample samples.collections.Sequences.Transformations.averageWindows  
@SinceKotlin("1.2")  
public fun <T, R> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): Sequence<R> {  
 return windowedSequence(size, step, partialWindows, reuseBuffer = true).map(transform)  
}

Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index.  
The resulting sequence ends as soon as the shortest input sequence

ends.  
The operation is `_intermediate_` and `_stateless_`.  
@sample samples.collections.Sequences.Transformations.zip  
public infix fun <T, R> Sequence<T>.zip(other: Sequence<R>): Sequence<Pair<T, R>> {  
 return MergingSequence(this, other) { t1, t2 -> t1 to t2 }  
}

Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index using the provided [transform] function applied to each pair of elements.  
The resulting sequence ends as soon as the shortest input sequence ends.  
The operation is `_intermediate_` and `_stateless_`.



```

sequence.\n *\n * The operation is _terminal_.\n *\n@kotlin.jvm.JvmName("averageOfLong")\npublic fun
Sequence<Long>.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n
    sum += element\n    checkCountOverflow(++count)\n
  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in
the sequence.\n *\n * The operation is _terminal_.\n *\n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun
Sequence<Float>.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n
    sum += element\n    checkCountOverflow(++count)\n
  }\n  return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("averageOfDouble")\npublic fun Sequence<Double>.average(): Double {\n  var sum:
Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n
checkCountOverflow(++count)\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfByte")\npublic
fun Sequence<Byte>.sum(): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun Sequence<Short>.sum(): Int {\n  var sum: Int = 0\n  for
(element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all elements in the
sequence.\n *\n * The operation is _terminal_.\n *\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun
Sequence<Int>.sum(): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun Sequence<Long>.sum(): Long {\n  var sum: Long = 0L\n
for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/**\n
* Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun Sequence<Float>.sum(): Float {\n  var sum: Float = 0.0f\n
for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all elements in
the sequence.\n *\n * The operation is _terminal_.\n *\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun
Sequence<Double>.sum(): Double {\n  var sum: Double = 0.0\n  for (element in this) {\n    sum += element\n
}\n  return sum\n}\n\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SetsKt")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport
kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a set containing
all elements of the original set except the given [element].\n *\n * The returned set preserves the element iteration
order of the original set.\n *\npublic operator fun <T> Set<T>.minus(element: T): Set<T> {\n  val result =
LinkedHashSet<T>(mapCapacity(size))\n  var removed = false\n  return this.filterTo(result) { if (!removed &&
it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a set containing all elements of the
original set except the elements contained in the given [elements] array.\n *\n * The returned set preserves the
element iteration order of the original set.\n *\n * The [elements] array may be converted to a [HashSet] to
speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()`
that doesn't change between
successive invocations.\n *\npublic operator fun <T> Set<T>.minus(elements: Array<out T>): Set<T> {\n  val
result = LinkedHashSet<T>(this)\n  result.removeAll(elements)\n  return result\n}\n\n/**\n * Returns a set
containing all elements of the original set except the elements contained in the given [elements] collection.\n *\n
*\n * The returned set preserves the element iteration order of the original set.\n *\n * The [elements]
collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n *
a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n
*\npublic operator fun <T>

```

```

Set<T>.minus(elements: Iterable<T>): Set<T> {\n    val other = elements.convertToSetForSetOperationWith(this)\n    if (other.isEmpty())\n        return this.toSet()\n    if (other is Set)\n        return\n    this.filterNotTo(LinkedHashSet<T>()) { it in other }\n    val result = LinkedHashSet<T>(this)\n    result.removeAll(other)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained\n * in the given [elements] sequence.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are\n * required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive\n * invocations.\n */\npublic operator fun <T> Set<T>.minus(elements: Sequence<T>): Set<T> {\n    val result =\n    LinkedHashSet<T>(this)\n    result.removeAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all\n * elements of the original set except the given [element].\n * \n * The returned set preserves the element iteration\n * order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.minusElement(element:\n    T): Set<T> {\n    return minus(element)\n}\n\n/**\n * Returns a\n * set containing all elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The\n * returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T>\n    Set<T>.plus(element: T): Set<T> {\n    val result = LinkedHashSet<T>(mapCapacity(size + 1))\n    result.addAll(this)\n    result.add(element)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the\n * original set and the given [elements] array,\n * which aren't already in this set.\n * \n * The returned set preserves\n * the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Array<out T>):\n    Set<T> {\n    val result = LinkedHashSet<T>(mapCapacity(this.size + elements.size))\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the original set and\n * the given [elements] collection,\n * which aren't already in this set.\n * \n * The returned\n * set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements:\n    Iterable<T>): Set<T> {\n    val result = LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull() ?: let {\n    this.size + it } ?: this.size * 2))\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] sequence,\n * which aren't already\n * in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun\n    <T> Set<T>.plus(elements: Sequence<T>): Set<T> {\n    val result = LinkedHashSet<T>(mapCapacity(this.size *\n    2))\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all\n * elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The returned set\n * preserves the element iteration order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic\n    inline fun <T> Set<T>.plusElement(element: T): Set<T> {\n    return plus(element)\n}\n\n"/*\n * Copyright\n * 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed\n * by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage\n    kotlin.text\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:\n    https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns a\n * character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char\n * sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun\n    CharSequence.elementAt(index: Int): Char\n\n/**\n * Returns a character at the given [index] or the result of calling\n * the [defaultValue] function\n * if the [index] is out of bounds of this char sequence.\n * \n * @sample\n * samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun\n    CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n    return if (index >= 0 && index\n    <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if\n * the [index] is out of bounds of this char sequence.\n * \n * @sample\n * samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun\n    CharSequence.elementAtOrNull(index: Int): Char? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the first

```

```

character matching the given [predicate], or `null` if no such character was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.find(predicate: (Char) -> Boolean): Char? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n * \n *
@sample samples.collections.Collections.Elements.find\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.findLast(predicate: (Char) -> Boolean): Char? {\n    return lastOrNull(predicate)\n}\n\n/**\n *
Returns first character.\n * @throws [NoSuchElementException] if the char sequence is empty.\n *^\npublic fun
CharSequence.first(): Char {\n    if (isEmpty())\n        throw NoSuchElementException("Char sequence is
empty.")\n    return this[0]\n}\n\n/**\n * Returns the first character matching the given [predicate].\n * @throws
[NoSuchElementException] if no such character is found.\n *^\npublic inline fun CharSequence.first(predicate:
(Char) -> Boolean): Char {\n    for (element in this) if (predicate(element)) return element\n    throw
NoSuchElementException("Char sequence contains no character matching the predicate.")\n}\n\n/**\n * Returns
the first character, or `null` if the char sequence is empty.\n *^\npublic fun CharSequence.firstOrNull(): Char? {\n
return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first character matching the given [predicate], or
`null` if character was not found.\n *^\npublic inline fun CharSequence.firstOrNull(predicate: (Char) -> Boolean):
Char? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns a
character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this char sequence.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.getOrElse(index: Int,
defaultValue: (Int) -> Char): Char {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of
this char sequence.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n *^\npublic fun
CharSequence.getOrNull(index: Int): Char? {\n    return if (index >= 0 && index <= lastIndex)
get(index) else null\n}\n\n/**\n * Returns index of the first character matching the given [predicate], or -1 if the char
sequence does not contain such character.\n *^\npublic inline fun CharSequence.indexOfFirst(predicate: (Char) ->
Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last character matching the given [predicate], or -1 if the char
sequence does not contain such character.\n *^\npublic inline fun CharSequence.indexOfLast(predicate: (Char) ->
Boolean): Int {\n    for (index in indices.reversed()) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns the last character.\n * \n * @throws NoSuchElementException if the char
sequence is empty.\n * \n * @sample samples.text.Strings.last\n *^\npublic fun CharSequence.last(): Char {\n    if
(isEmpty())\n        throw NoSuchElementException("Char sequence is empty.")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last character matching the given
[predicate].\n * \n * @throws NoSuchElementException if no such character is found.\n * \n * @sample
samples.text.Strings.last\n *^\npublic inline fun CharSequence.last(predicate: (Char) -> Boolean): Char {\n    for
(index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException("Char sequence contains no character matching the predicate.")\n}\n\n/**\n * Returns the last character, or `null` if the char
sequence is empty.\n * \n * @sample samples.text.Strings.last\n *^\npublic fun CharSequence.lastOrNull(): Char? {\n
return if (isEmpty()) null else this[length - 1]\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if
no such character was found.\n * \n * @sample samples.text.Strings.last\n *^\npublic inline fun
CharSequence.lastOrNull(predicate: (Char) -> Boolean): Char? {\n    for (index in this.indices.reversed()) {\n
val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a
random character from this char sequence.\n * \n * @throws NoSuchElementException if this char sequence is
empty.\n *^\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.random(): Char {\n
return random(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified
source of randomness.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n *^\n@SinceKotlin("1.3")\npublic fun CharSequence.random(random: Random): Char {\n    if (isEmpty())\n        throw
NoSuchElementException("Char sequence is empty.")\n    return get(random.nextInt(length))\n}\n\n/**\n *

```



```

@sample samples.text.Strings.drop\n *\npublic inline fun CharSequence.dropWhile(predicate:
(Char) -> Boolean): CharSequence {\n for (index in this.indices)\n if (!predicate(this[index]))\n return
subSequence(index, length)\n return ""\n}\n\n/**\n * Returns a string containing all characters except first
characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n *\npublic inline fun
String.dropWhile(predicate: (Char) -> Boolean): String {\n for (index in this.indices)\n if
(!predicate(this[index]))\n return substring(index)\n return ""\n}\n\n/**\n * Returns a char sequence
containing only those characters from the original char sequence that match the given [predicate].\n * \n * @sample
samples.text.Strings.filter\n *\npublic inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence
{\n return filterTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from
the original string that match the given [predicate].\n * \n * @sample
samples.text.Strings.filter\n *\npublic inline fun String.filter(predicate: (Char) -> Boolean): String {\n return
filterTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Returns a char sequence containing only those
characters from the original char sequence that match the given [predicate].\n * @param [predicate] function that
takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the
character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n *\npublic inline fun
CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence {\n return
filterIndexedTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the
original string that match the given [predicate].\n * @param [predicate] function that takes the index of a character
and the character itself\n * and returns the result of predicate evaluation on the character.\n * \n *
@sample samples.collections.Collections.Filtering.filterIndexed\n *\npublic inline fun
String.filterIndexed(predicate: (index: Int, Char) -> Boolean): String {\n return filterIndexedTo(StringBuilder(),
predicate).toString()\n}\n\n/**\n * Appends all characters matching the given [predicate] to the given
[destination].\n * @param [predicate] function that takes the index of a character and the character itself\n * and
returns the result of predicate evaluation on the character.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n *\npublic inline fun <C : Appendable>
CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n forEachIndexed {\n
index, element ->\n if (predicate(index, element)) destination.append(element)\n }\n return
destination}\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence
that do not match the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n
*\npublic inline fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {\n return
filterNotTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the
original string that do not match the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n *\npublic
inline fun String.filterNot(predicate: (Char) -> Boolean): String {\n return filterNotTo(StringBuilder(),
predicate).toString()\n}\n\n/**\n * Appends all characters not matching the given [predicate] to the given
[destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C :
Appendable> CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n for (element in this)
if (!predicate(element)) destination.append(element)\n return destination}\n}\n\n/**\n * Appends all characters
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\npublic inline fun <C : Appendable> CharSequence.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n
for (index in 0 until length) {\n val element = get(index)\n if (predicate(element))
destination.append(element)\n }\n return destination}\n}\n\n/**\n * Returns a char sequence containing characters
of the original char sequence at the specified range of [indices].\n *\npublic fun CharSequence.slice(indices:
IntRange): CharSequence {\n if (indices.isEmpty()) return ""\n return subSequence(indices)\n}\n\n/**\n * Returns a string containing characters of the original string at the specified range of [indices].\n *\npublic fun
String.slice(indices: IntRange): String {\n if (indices.isEmpty()) return ""\n return
substring(indices)\n}\n\n/**\n * Returns a char sequence containing characters of the original char sequence at
specified [indices].\n *\npublic fun CharSequence.slice(indices: Iterable<Int>):

```

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CharSequence {n val size = indices.collectionSizeOrDefault(10)n if (size == 0) return ""n val result =
StringBuilder(size)n for (i in indices) {n result.append(get(i))n }n return resultn}n/n/**n * Returns a
string containing characters of the original string at specified [indices].n */n@kotlin.internal.InlineOnlynpublic
inline fun String.slice(indices: Iterable<Int>): String {n return (this as
CharSequence).slice(indices).toString()n}n/n/**n * Returns a subsequence of this char sequence containing the
first [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.n * n *
@throws IllegalArgumentException if [n] is negative.n * n * @sample samples.text.Strings.take\n */npublic fun
CharSequence.take(n: Int): CharSequence {n require(n >= 0) { "Requested character count $n is less than zero."
}n return subSequence(0, n.coerceAtMost(length))n}n/n/**n * Returns a string containing
the first [n] characters from this string, or the entire string if this string is shorter.n * n * @throws
IllegalArgumentException if [n] is negative.n * n * @sample samples.text.Strings.take\n */npublic fun
String.take(n: Int): String {n require(n >= 0) { "Requested character count $n is less than zero." }n return
substring(0, n.coerceAtMost(length))n}n/n/**n * Returns a subsequence of this char sequence containing the last
[n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.n * n * @throws
IllegalArgumentException if [n] is negative.n * n * @sample samples.text.Strings.take\n */npublic fun
CharSequence.takeLast(n: Int): CharSequence {n require(n >= 0) { "Requested character count $n is less than
zero." }n val length = lengthn return subSequence(length - n.coerceAtMost(length), length)n}n/n/**n *
Returns a string containing the last [n] characters from this string, or the entire string if this
string is shorter.n * n * @throws IllegalArgumentException if [n] is negative.n * n * @sample
samples.text.Strings.take\n */npublic fun String.takeLast(n: Int): String {n require(n >= 0) { "Requested
character count $n is less than zero." }n val length = lengthn return substring(length -
n.coerceAtMost(length))n}n/n/**n * Returns a subsequence of this char sequence containing last characters that
satisfy the given [predicate].n * n * @sample samples.text.Strings.take\n */npublic inline fun
CharSequence.takeLastWhile(predicate: (Char) -> Boolean): CharSequence {n for (index in lastIndex downTo 0)
{n if (!predicate(this[index])) {n return subSequence(index + 1, length)n }n }n return
subSequence(0, length)n}n/n/**n * Returns a string containing last characters that satisfy the given [predicate].n
* n * @sample samples.text.Strings.take\n */npublic inline fun String.takeLastWhile(predicate: (Char) ->
Boolean): String
{n for (index in lastIndex downTo 0) {n if (!predicate(this[index])) {n return substring(index + 1)n
}n }n return thisn}n/n/**n * Returns a subsequence of this char sequence containing the first characters
that satisfy the given [predicate].n * n * @sample samples.text.Strings.take\n */npublic inline fun
CharSequence.takeWhile(predicate: (Char) -> Boolean): CharSequence {n for (index in 0 until length)n if
(!predicate(get(index))) {n return subSequence(0, index)n }n return subSequence(0,
length)n}n/n/**n * Returns a string containing the first characters that satisfy the given [predicate].n * n *
@sample samples.text.Strings.take\n */npublic inline fun String.takeWhile(predicate: (Char) -> Boolean): String
{n for (index in 0 until length)n if (!predicate(get(index))) {n return substring(0, index)n }n
return thisn}n/n/**n * Returns a char sequence with characters
in reversed order.n */npublic fun CharSequence.reversed(): CharSequence {n return
StringBuilder(this).reverse()n}n/n/**n * Returns a string with characters in reversed order.n
*/n@kotlin.internal.InlineOnlynpublic inline fun String.reversed(): String {n return (this as
CharSequence).reversed().toString()n}n/n/**n * Returns a [Map] containing key-value pairs provided by
[transform] functionn * applied to characters of the given char sequence.n * n * If any of two pairs would have the
same key the last one gets added to the map.n * n * The returned map preserves the entry iteration order of the
original char sequence.n * n * @sample samples.text.Strings.associate\n */npublic inline fun <K, V>
CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {n val capacity =
mapCapacity(length).coerceAtLeast(16)n return associateTo(LinkedHashMap<K, V>(capacity),
transform)n}n/n/**n * Returns a [Map] containing the characters from the given char

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sequence indexed by the key\n \* returned from [keySelector] function applied to each character.\n \* \n \* If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original char sequence.\n \* \n \* @sample samples.text.Strings.associateBy\n \* ^\npublic inline fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n val capacity = mapCapacity(length).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/\*\*\n \* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to characters of the given char sequence.\n \* \n \* If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original char sequence.\n \* \n \* @sample samples.text.Strings.associateByWithValueTransform\n \* ^\npublic inline fun <K, V> CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n val capacity = mapCapacity(length).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function applied to each character of the given char sequence\n \* and value is the character itself.\n \* \n \* If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.text.Strings.associateByTo\n \* ^\npublic inline fun <K, M : MutableMap<in K, in Char>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function and\n \* and value is provided by the [valueTransform] function applied to characters of the given char sequence.\n \* \n \* If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.text.Strings.associateByToWithValueTransform\n \* ^\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs\n \* provided by [transform] function applied to each character of the given char sequence.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* @sample samples.text.Strings.associateTo\n \* ^\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/\*\*\n \* Returns a [Map] where keys are characters from the given char sequence and values are\n \* produced by the [valueSelector] function applied to each character.\n \* \n \* If any two characters are equal, the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original char sequence.\n \* \n \* @sample samples.text.Strings.associateWith\n \* ^\n@SinceKotlin("1.3")\npublic inline fun <V> CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n val result = LinkedHashMap<Char, V>(mapCapacity(length.coerceAtMost(128)).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs for each character of the given char sequence,\n \* where key is the character itself and value is provided by the [valueSelector] function applied to that key.\n \* \n \* If any two characters are equal, the last one overwrites the former value in the map.\n \* \n \* @sample samples.text.Strings.associateWithTo\n \* ^\n@SinceKotlin("1.3")\npublic inline fun <V, M : MutableMap<in Char, in V>> CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/\*\*\n \* Appends all characters to the given [destination] collection.\n \* \n \* @public fun <C : MutableCollection<in Char>> CharSequence.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/\*\*\n \* Returns a new [HashSet] of all characters.\n \* \n \* @public fun CharSequence.toHashSet(): HashSet<Char> {\n return toCollection(HashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n}\n\n/\*\*\n

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* Returns a [List] containing all characters.\n */\npublic fun CharSequence.toList(): List<Char> {\n    return when\n        (length) {\n            0 -> emptyList()\n            1 -> listOf(this[0])\n            else -> this.toMutableList()\n        }\n}\n\n/**\n * Returns a new [MutableList] filled with all characters of this char sequence.\n */\npublic fun\nCharSequence.toMutableList(): MutableList<Char> {\n    return toCollection(ArrayList<Char>(length))\n}\n\n/**\n * Returns a [Set] of all characters.\n * \n * The returned set preserves the element iteration order of the original char\n sequence.\n */\npublic fun CharSequence.toSet(): Set<Char> {\n    return when (length) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n    }\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on\n each character of original\n char sequence.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun\n<R> CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),\n transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being\n invoked on each character\n * and its index in the original char sequence.\n * \n * @sample\n samples.collections.Collections.Transformations.flatMapIndexed\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic\ninline fun <R> CharSequence.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n    return\n flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of\n [transform] function being invoked on each character\n * and its index in\n the original char sequence, to the given [destination].\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic\ninline fun <R, C : MutableCollection<in R>> CharSequence.flatMapIndexedTo(destination: C, transform: (index:\n Int, Char) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,\n element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from\n results of [transform] function being invoked on each character of original char sequence, to the given\n [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapTo(destination: C,\n transform: (Char) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Groups characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each character and returns a map where each group key is associated with a list of corresponding\n characters.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original char\n sequence.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K>\nCharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n    return\n groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the\n [valueTransform] function applied to each character of the original char sequence\n * by the key returned by the\n given [keySelector] function applied to the character\n * and returns a map where each group key is associated with\n a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced\n from the original char sequence.\n * \n * @sample\n samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V>\nCharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n    return\n groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups\n characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each\n character and puts to the [destination] map each group key associated with a list of corresponding characters.\n * \n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n\n*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharSequence.groupByTo(destination: M,\n keySelector: (Char) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =\n destination.getOrPut(key) { ArrayList<Char>() }\n        list.add(element)\n    }\n}

```



```

CharSequence.mapTo(destination:
    C, transform: (Char) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

Returns a lazy [Iterable] that wraps each character of the original char sequence into an [IndexedValue] containing the index of that character and the character itself.

CharSequence.withIndex(): Iterable<IndexedValue<Char>> {
    return IndexingIterable { iterator() }
}

Returns `true` if all characters match the given [predicate].

@sample
samples.collections.Collections.Aggregates.all

public inline fun CharSequence.all(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

Returns `true` if char sequence has at least one character.

@sample
samples.collections.Collections.Aggregates.any

public fun CharSequence.any(): Boolean {
    return !isEmpty()
}

Returns `true` if at least one character matches the given [predicate].

@sample samples.collections.Collections.Aggregates.anyWithPredicate

public inline fun CharSequence.any(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

Returns the length of this char sequence.

@kotlin.internal.InlineOnly
public inline fun CharSequence.count(): Int {
    return length
}

Returns the number of characters matching the given [predicate].

public inline fun CharSequence.count(predicate: (Char) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each character.

Returns the specified [initial] value if the char sequence is empty.

@param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.

public inline fun <R> CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each character with its index in the original char sequence.

Returns the specified [initial] value if the char sequence is empty.

@param [operation] function that takes the index of a character, current accumulator value and the character itself, and calculates the next accumulator value.

public inline fun <R> CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

Accumulates value starting with [initial] value and applying [operation] from right to left to each character and current accumulator value.

Returns the specified [initial] value if the char sequence is empty.

@param [operation] function that takes a character and current accumulator value, and calculates the next accumulator value.

public inline fun <R> CharSequence.foldRight(initial: R, operation: (Char, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

Accumulates value starting with [initial] value and applying [operation] from right to left to each character with its index in the original char sequence and current accumulator value.

Returns the specified [initial] value if the char sequence is empty.

@param [operation] function that takes the index of a character, the character itself and current accumulator value, and calculates the next accumulator value.

public inline fun <R> CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

Performs the given [action] on each character.

public inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {
    for (element in this) action(element)
}

Performs the given [action] on each character, providing sequential index with the character.

@param [action] function that takes the index of a character and the character itself and performs the action on the character.

public inline fun CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++,

```

```

item)\n\n@Deprecated("Use maxOrNull instead.\",
ReplaceWith("maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
CharSequence.max(): Char? {\n    return maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.\",
ReplaceWith("maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline fun
<R : Comparable<R>> CharSequence.maxBy(selector: (Char) -> R): Char? {\n    return
maxByOrNull(selector)\n}\n\n/**\n * Returns the first character yielding the largest value of the given function or
`null` if there are no characters.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> CharSequence.maxByOrNull(selector: (Char) -
> R): Char? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if
(lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val
e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n
}\n    }\n    return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) ->
Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i
in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> CharSequence.maxOf(selector: (Char) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n
Returns the largest value among all values produced by [selector] function\n * applied to each character in the char
sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector:
(Char) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in
1..lastIndex)
{\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n
Returns the largest value among all values produced by [selector] function\n * applied to each character in the char
sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector:
(Char) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in
1..lastIndex)
{\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n Returns the largest value among all values produced by [selector] function\n * applied to

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each character in the char sequence or `null` if there are no characters.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.maxOfOrNull(selector: (Char) -> R): R? {\n    if (isEmpty()) return null\n    var maxV =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxV < v) {\n
maxV = v\n        }\n    }\n    return maxV\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each character in the char sequence.\n
*\n * @throws NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.maxOfWith(comparator:
Comparator<in R>, selector: (Char) -> R):
R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxV = selector(this[0])\n    for (i in
1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxV, v) < 0) {\n            maxV
= v\n        }\n    }\n    return maxV\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each character in the char sequence or
`null` if there are no characters.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharSequence.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n    if (isEmpty())
return null\n    var maxV = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n
if (comparator.compare(maxV, v) < 0) {\n            maxV = v\n        }\n    }\n    return maxV\n}\n\n/**\n * Returns the largest character or `null` if there are no characters.\n
*\n@SinceKotlin("1.4")\npublic fun CharSequence.maxOrNull(): Char? {\n    if (isEmpty()) return null\n    var
max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return
max\n}\n\n@Deprecated("Use maxWithOrNull instead.",
ReplaceWith("maxWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
CharSequence.maxWith(comparator: Comparator<in Char>): Char? {\n    return
maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first character having the largest value according to the
provided [comparator] or `null` if there are no characters.\n
*\n@SinceKotlin("1.4")\npublic fun
CharSequence.maxWithOrNull(comparator: Comparator<in Char>): Char? {\n    if (isEmpty()) return null\n    var
max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0)
max = e\n    }\n    return max\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
CharSequence.min(): Char? {\n    return minOrNull()\n}\n\n@Deprecated("Use minByOrNull instead.",
ReplaceWith("minByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline fun <R
: Comparable<R>> CharSequence.minBy(selector: (Char) -> R): Char? {\n    return
minByOrNull(selector)\n}\n\n/**\n * Returns the first character yielding the smallest value of the given function or
`null` if there are no characters.\n
*\n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> CharSequence.minByOrNull(selector: (Char) -
> R): Char? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if
(lastIndex == 0) return minElem\n    var minV = selector(minElem)\n    for (i in 1..lastIndex)
{\n        val e = this[i]\n        val v = selector(e)\n        if (minV > v) {\n            minElem = e\n            minV
= v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the smallest value among all values produced by
[selector] function\n * applied to each character in the char sequence.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is
empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) ->

```

```

Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return
    minValue
}

/**
 * Returns the smallest value among all values
 * produced by [selector] function
 * applied to each character in the char sequence.
 * If any of values
 * produced by [selector] function is `NaN`, the returned result is `NaN`.
 * @throws NoSuchElementException
 * if the char sequence is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharSequence.minOf(selector: (Char) ->
Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return
    minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to
 * each character in the char sequence.
 * @throws NoSuchElementException if the char sequence is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public
inline fun <R : Comparable<R>> CharSequence.minOf(selector: (Char) -> R): R {
    if (isEmpty()) throw
    NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
        selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each character in the char
 * sequence or `null` if there are no characters.
 * If any of values produced by [selector] function is `NaN`, the
 * returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharSequence.minOrNull(selector:
(Char) -> Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return
    minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to
 * each character in the char sequence or `null` if there are no characters.
 * If any of values produced by
 * [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharSequence.minOrNull(selector:
(Char) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex)
    {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each character in the char
 * sequence
 * or `null` if there are no characters.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
CharSequence.minOrNull(selector: (Char) -> R): R? {
    if (isEmpty()) return null
    var minValue =
    selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided
 * [comparator]
 * among all values produced by [selector] function applied to each character in the char sequence.
 * @throws NoSuchElementException if the char sequence is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> CharSequence.minOfWith(comparator:
Comparator<in
R>, selector: (Char) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue =
    selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue,
v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value
 * according to the provided [comparator]
 * among all values produced by [selector] function applied to each

```

character in the char sequence or `null` if there are no characters.

```

*^@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R>
CharSequence.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {
    if (isEmpty())
        return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0)
            minValue = v
    }
    return minValue
}

```

\* Returns the smallest character or `null` if there are no characters.

```

*^@SinceKotlin("1.4")
public fun CharSequence.minOrNull(): Char? {
    if (isEmpty())
        return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e)
            min = e
    }
    return min
}

```

@Deprecated("Use minWithOrNull instead.")

```

ReplaceWith("minWithOrNull(comparator)")
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun
CharSequence.minWith(comparator: Comparator<in Char>): Char? {
    return
minWithOrNull(comparator)
}

```

\* Returns the first character having the smallest value according to the provided [comparator] or `null` if there are no characters.

```

*^@SinceKotlin("1.4")
public fun
CharSequence.minWithOrNull(comparator: Comparator<in Char>): Char? {
    if (isEmpty())
        return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min,
e) > 0)
            min = e
    }
    return min
}

```

\* Returns `true` if the char sequence has no characters.

```

*^@sample samples.collections.Collections.Aggregates.none
public fun CharSequence.none(): Boolean {
    return isEmpty()
}

```

\* Returns `true` if no characters match the given [predicate].

```

*^@sample samples.collections.Collections.Aggregates.noneWithPredicate
public inline fun
CharSequence.none(predicate: (Char) -> Boolean): Boolean {
    for (element in this)
        if (predicate(element))
            return false
    return true
}

```

\* Performs the given [action] on each character and returns the char sequence itself afterwards.

```

*^@SinceKotlin("1.1")
public inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S {
    return apply {
        for (element in this)
            action(element)
    }
}

```

\* Performs the given [action] on each character, providing sequential index with the character, and returns the char sequence itself afterwards.

```

*^@param [action] function that takes the index of a character and the character itself
* and performs the action on the character.
*^@SinceKotlin("1.4")
public inline fun <S : CharSequence>
S.onEachIndexed(action: (index: Int, Char) -> Unit): S {
    return apply {
        forEachIndexed(action)
    }
}

```

\* Accumulates value starting with the first character and applying [operation] from left to right to current accumulator value and each character.

```

*^@sample samples.collections.Collections.Aggregates.reduce
public inline fun CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char {
    if (isEmpty())
        throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

\* Accumulates value starting with the first character and applying [operation] from left to right to current accumulator value and each character with its index in the original char sequence.

```

*^@sample samples.collections.Collections.Aggregates.reduce
* Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,
* please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
*^@param [operation] function that takes the index of a character, current accumulator value and the character itself
* and calculates the next accumulator value.
*^@sample samples.collections.Collections.Aggregates.reduce
public inline fun
CharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char):
Char {
    if (isEmpty())
        throw UnsupportedOperationException("Empty char sequence can't be
reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index,
accumulator, this[index])
    }
    return accumulator
}

```

\* Accumulates value starting with the first character and applying [operation] from left to right to current accumulator value and each character with its index in the original char sequence.

```

*^@sample samples.collections.Collections.Aggregates.reduce
* Returns `null` if the char sequence is empty.
*^@param

```

[operation] function that takes the index of a character, current accumulator value and the character itself, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduceOrNull
*^@SinceKotlin("1.4")
public inline fun CharSequence.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? {
    if (isEmpty()) return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first character and applying [operation] from left to right to current accumulator value and each character. Returns `null` if the char sequence is empty.

@param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduceOrNull
*^@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun CharSequence.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {
    if (isEmpty()) return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the last character and applying [operation] from right to left to each character and current accumulator value. Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes a character and current accumulator value, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduceRight
*^public inline fun CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last character and applying [operation] from right to left to each character with its index in the original char sequence and current accumulator value. Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of a character, the character itself and current accumulator value, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduceRight
*^public inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last character and applying [operation] from right to left to each character with its index in the original char sequence and current accumulator value. Returns `null` if the char sequence is empty.

@param [operation] function that takes the index of a character, the character itself and current accumulator value, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduceRightOrNull
*^@SinceKotlin("1.4")
public inline fun CharSequence.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last character and applying [operation] from right to left to each character and current accumulator value. Returns `null` if the char sequence is empty.

@param [operation] function that takes a character and current accumulator value, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduceRightOrNull
*^@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator =

```

operation(get(index--), accumulator)\n } \n return accumulator\n}\n\n\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each character and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous

value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.\n \* \n \* @sample

```
samples.collections.Collections.Aggregates.runningFold\n * \n @SinceKotlin("1.4")\n public inline fun <R>  
 CharSequence.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {\n if (isEmpty()) return  
 listOf(initial)\n val result = ArrayList<R>(length + 1).apply { add(initial) }\n var accumulator = initial\n for  
 (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n**\n * Returns a list containing successive accumulation values generated by applying  
 [operation] from left to right\n * to each character, its index in the original char sequence and current accumulator  
 value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be  
 mutated;\n * otherwise it would
```

affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of a character,  
 current accumulator value\n \* and the character itself, and calculates the next accumulator value.\n \* \n \* @sample

```
samples.collections.Collections.Aggregates.runningFold\n * \n @SinceKotlin("1.4")\n public inline fun <R>  
 CharSequence.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n if  
 (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(length + 1).apply { add(initial) }\n var accumulator  
 = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n**\n * Returns a list containing successive accumulation  
 values generated by applying [operation] from left to right\n * to each character and current accumulator value that  
 starts with the first character of this char sequence.\n * \n * Note that `acc`
```

value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in  
 resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and a character, and  
 calculates the next accumulator value.\n \* \n \* @sample

```
samples.collections.Collections.Aggregates.runningReduce\n * \n @SinceKotlin("1.4")\n public inline fun  
 CharSequence.runningReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n if (isEmpty()) return  
 emptyList()\n var accumulator = this[0]\n val result = ArrayList<Char>(length).apply { add(accumulator) }\n for  
 (index in 1 until length) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n**\n * Returns a list containing successive accumulation  
 values generated by applying [operation] from left to right\n * to each character, its index in the original char  
 sequence and current accumulator value that starts with the first
```

character of this char sequence.\n \* \n \* Note that `acc` value passed to [operation] function should not be  
 mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that  
 takes the index of a character, current accumulator value\n \* and the character itself, and calculates the next  
 accumulator value.\n \* \n \* @sample

```
samples.collections.Collections.Aggregates.runningReduce\n * \n @SinceKotlin("1.4")\n public inline fun CharSequence.runningReduceIndexed(operation: (index: Int, acc:  
 Char, Char) -> Char): List<Char> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result  
 = ArrayList<Char>(length).apply { add(accumulator) }\n for (index in 1 until length) {\n accumulator =  
 operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value  
 passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting  
 list.\n * \n * @param [operation] function that takes current accumulator value and a character, and calculates the  
 next accumulator value.\n * \n * @sample
```

```
samples.collections.Collections.Aggregates.scan\n * \n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public inline fun <R>  
 CharSequence.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n return runningFold(initial,
```

operation)\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each character, its index in the original char sequence and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise

it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of a character, current accumulator value\n \* and the character itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>\nCharSequence.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n    return\n    runningFoldIndexed(initial, operation)\n}\n\n@Deprecated("Use runningReduce instead.",\nReplaceWith("runningReduce(operation)"), level =\nDeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun\nCharSequence.scanReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n    return\n    runningReduce(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.",\nReplaceWith("runningReduceIndexed(operation)"), level =\nDeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic\ninline fun CharSequence.scanReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n    return\n    runningReduceIndexed(operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each character in the char sequence.\n */\npublic inline fun CharSequence.sumBy(selector: (Char) -> Int):\nInt {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\npublic inline fun CharSequence.sumByDouble(selector: (Char) -> Double): Double {\n    var sum: Double =\n0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic\ninline fun CharSequence.sumOf(selector: (Char) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for\n(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values\n produced by [selector] function applied to each character in the char sequence.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nCharSequence.sumOf(selector: (Char) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum\n+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]\n function applied to each character in the char sequence.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic\ninline fun CharSequence.sumOf(selector: (Char) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element\nin this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced\n by [selector] function applied to each character in the char sequence.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal\n.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> UInt): UInt {\n    var sum: UInt =\n0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the\n sum of all values produced by [selector] function applied to each character in the char\n sequence.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter\nnal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> ULong): ULong {\n    var sum: ULong =
```

```

0.toULong()\n for (element in this) {\n     sum += selector(element)\n } \n return sum\n}\n\n/**\n * Splits this
char sequence into a list of strings each not exceeding the given [size].\n * \n * The last string in the resulting list
may have less characters than the given [size].\n * \n * @param size the number of elements to take in each string,
must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample
samples.text.Strings.chunked\n *\n@SinceKotlin("1.2")\npublic fun CharSequence.chunked(size: Int):
List<String> {\n return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this char sequence
into several char sequences each not exceeding the given [size]\n * and applies the given [transform] function to an
each.\n * \n * @return list of results of the [transform] applied to an each char sequence.\n * \n * Note that the char
sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not
store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last char sequence may have
less characters than the given [size].\n * \n * @param size the number of elements to take in each char sequence,
must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample
samples.text.Strings.chunkedTransform\n *\n@SinceKotlin("1.2")\npublic fun <R> CharSequence.chunked(size:
Int, transform: (CharSequence) -> R): List<R> {\n return windowed(size, size, partialWindows = true, transform =
transform)\n}\n\n/**\n * Splits this char sequence into a sequence of strings each
not exceeding the given [size].\n * \n * The last string in the resulting sequence may have less characters than the
given [size].\n * \n * @param size the number of elements to take in each string, must be positive and can be greater
than the number of elements in this char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.chunked\n *\n@SinceKotlin("1.2")\npublic fun
CharSequence.chunkedSequence(size: Int): Sequence<String> {\n return chunkedSequence(size) { it.toString()
}\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and
applies the given [transform] function to an each.\n * \n * @return sequence of results of the [transform] applied to
an each char sequence.\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is
valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a
snapshot of it.\n * The last char
sequence may have less characters than the given [size].\n * \n * @param size the number of elements to take in
each char sequence, must be positive and can be greater than the number of elements in this char sequence.\n * \n *
@sample samples.text.Strings.chunkedTransformToSequence\n *\n@SinceKotlin("1.2")\npublic fun <R>
CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {\n return
windowedSequence(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Splits the original char
sequence into pair of char sequences,\n * where *first* char sequence contains characters for which [predicate]
yielded `true`,\n * while *second* char sequence contains characters for which [predicate] yielded `false`.\n * \n *
@sample samples.text.Strings.partition\n *\npublic inline fun CharSequence.partition(predicate: (Char) ->
Boolean): Pair<CharSequence, CharSequence> {\n val first = StringBuilder()\n val second = StringBuilder()\n
for
(element in this) {\n if (predicate(element)) {\n first.append(element)\n } else {\n
second.append(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original string into pair
of strings,\n * where *first* string contains characters for which [predicate] yielded `true`,\n * while *second* string
contains characters for which [predicate] yielded `false`.\n * \n * @sample samples.text.Strings.partition\n
*\npublic inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String> {\n val first =
StringBuilder()\n val second = StringBuilder()\n for (element in this) {\n if (predicate(element)) {\n
first.append(element)\n } else {\n second.append(element)\n }\n }\n return Pair(first.toString(),
second.toString())\n}\n\n/**\n * Returns a list of snapshots of the window of the given [size]\n * sliding along this
char sequence with the given [step], where
each\n * snapshot is a string.\n * \n * Several last strings may have less characters than the given [size].\n * \n *
Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n *
@param size the number of elements to take in each window\n * @param step the number of elements to move the
window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep

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partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n *
@sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin("1.2")\npublic fun
CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {\n  return
windowed(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a list of results of applying the given
[transform] function to\n * an each char sequence representing a view over the window of the given [size]\n
* sliding along this char sequence with the given [step].\n * \n * Note that the char sequence passed to the
[transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to
escape in some way, unless you made a snapshot of it.\n * Several last char sequences may have less characters than
the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in
this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of
elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls
whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't
be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n
*/\n@SinceKotlin("1.2")\npublic fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows:
Boolean
= false, transform: (CharSequence) -> R): List<R> {\n  checkWindowSizeStep(size, step)\n  val thisSize =
this.length\n  val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n  val result =
ArrayList<R>(resultCapacity)\n  var index = 0\n  while (index in 0 until thisSize) {\n    val end = index + size\n
val coercedEnd = if (end < 0 || end > thisSize) { if (partialWindows) thisSize else break } else end\n
result.add(transform(subSequence(index, coercedEnd)))\n    index += step\n  }\n  return result\n}\n\n/**\n *
Returns a sequence of snapshots of the window of the given [size]\n * sliding along this char sequence with the
given [step], where each\n * snapshot is a string.\n * \n * Several last strings may have less characters than the given
[size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char
sequence.\n * @param size the number of elements to take in each window\n
* @param step the number of elements to move the window forward by on an each step, by default 1\n * @param
partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which
means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin("1.2")\npublic fun
CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<String> {\n
return windowedSequence(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a sequence of results
of applying the given [transform] function to\n * an each char sequence representing a view over the window of the
given [size]\n * sliding along this char sequence with the given [step].\n * \n * Note that the char sequence passed to
the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to
escape in some way, unless you made a snapshot
of it.\n * Several last char sequences may have less characters than the given [size].\n * \n * Both [size] and [step]
must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number
of elements to take in each window\n * @param step the number of elements to move the window forward by on an
each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if
any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin("1.2")\npublic fun <R>
CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform:
(CharSequence) -> R): Sequence<R> {\n  checkWindowSizeStep(size, step)\n  val windows = (if
(partialWindows) indices else 0 until length - size + 1) step step\n  return windows.asSequence().map { index ->\n
val end = index + size\n
val coercedEnd = if (end < 0 || end > length) length else end\n    transform(subSequence(index,
coercedEnd))\n  }\n}\n\n/**\n * Returns a list of pairs built from the characters of `this` and the [other] char
sequences with the same index\n * The returned list has length of the shortest char sequence.\n * \n * @sample
samples.text.Strings.zip\n */\npublic infix fun CharSequence.zip(other: CharSequence): List<Pair<Char, Char>> {\n

```



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String = trim { it in chars }
CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart { it in chars }
String.trimStart(vararg chars: Char): String = trimStart { it in chars }
CharSequence.trimEnd(vararg chars: Char): CharSequence = trimEnd { it in chars }
String.trimEnd(vararg chars: Char): String = trimEnd { it in chars }
CharSequence.trim(): CharSequence = trim(Char::isWhitespace)
String.trim(): String = (this as CharSequence).trim().toString()
CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace)
String.trimStart(): String = (this as CharSequence).trimStart().toString()
CharSequence.trimEnd(): CharSequence = trimEnd(Char::isWhitespace)
String.trimEnd(): String = (this as CharSequence).trimEnd().toString()
CharSequence.padStart(length: Int, padChar: Char = ' '): CharSequence {
    if (length < 0) throw IllegalArgumentException("Desired length $length is less than zero.")
    if (length <= this.length) return this.subSequence(0, this.length)
    val sb = StringBuilder(length)
    for (i in 1..(length - this.length)) sb.append(padChar)
    sb.append(this)
    return sb
}
String.padStart(length: Int, padChar: Char = ' '): String = (this as CharSequence).padStart(length, padChar).toString()
CharSequence.padEnd(length: Int, padChar: Char = ' '): CharSequence {
    if (length < 0) throw IllegalArgumentException("Desired length $length is less than zero.")
    if (length <= this.length) return this.subSequence(0, this.length)
    val sb = StringBuilder(length)
    sb.append(this)
    for (i in 1..(length - this.length)) sb.append(padChar)
    return sb
}
String.padEnd(length: Int, padChar: Char = ' '): String = (this as CharSequence).padEnd(length, padChar).toString()

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padChar).toString()\n\n/**\n * Returns `true` if this nullable char sequence is either `null` or empty.\n *\n *
@sample samples.text.Strings.stringOrNullOrNull\n *\n@kotlin.internal.InlineOnly\npublic
inline fun CharSequence?.isNullOrNull(): Boolean {\n    contract {\n        returns(false) implies
(this@isNullOrNull != null)\n    }\n    return this == null || this.length == 0\n}\n\n/**\n * Returns `true` if this
char sequence is empty (contains no characters).\n *\n * @sample samples.text.Strings.stringIsEmpty\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isEmpty(): Boolean = length == 0\n\n/**\n *
Returns `true` if this char sequence is not empty.\n *\n * @sample samples.text.Strings.stringIsNotEmpty\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isNotEmpty(): Boolean = length > 0\n\n//
implemented differently in JVM and JS\n//public fun String.isBlank(): Boolean = length() == 0 || all {
it.isWhitespace() }\n\n\n/**\n * Returns `true` if this char sequence is not empty and contains some characters
except of whitespace characters.\n *\n * @sample samples.text.Strings.stringIsNotBlank\n
*\n@kotlin.internal.InlineOnly\npublic
inline fun CharSequence.isNotBlank(): Boolean = !isBlank()\n\n\n/**\n * Returns `true` if this nullable char sequence
is either `null` or empty or consists solely of whitespace characters.\n *\n * @sample
samples.text.Strings.stringOrNullOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence?.isNullOrNull(): Boolean {\n    contract {\n        returns(false) implies (this@isNullOrNull !=
null)\n    }\n    return this == null || this.isBlank()\n}\n\n\n/**\n * Iterator for characters of the given char sequence.\n
*\n@kotlin.internal.InlineOnly\npublic operator fun CharSequence.iterator(): CharIterator = object : CharIterator() {\n
    private var index = 0\n\n    public override fun nextChar(): Char = get(index++)\n    public override fun hasNext(): Boolean = index <
length\n}\n\n\n/**\n * Returns the string if it is not `null`, or the empty string otherwise.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun String?.orEmpty(): String = this ?: ""\n\n\n/**\n * Returns this
char sequence
if it's not empty\n * or the result of calling [defaultValue] function if the char sequence is empty.\n *\n * @sample
samples.text.Strings.stringIfEmpty\n *\n@kotlin.internal.InlineOnly\npublic inline fun <C,
R> C.ifEmpty(defaultValue: () -> R): R where C : CharSequence, C : R =\n    if (isEmpty()) defaultValue() else
this\n\n\n/**\n * Returns this char sequence if it is not empty and doesn't consist solely of whitespace characters,\n
* or the result of calling [defaultValue] function otherwise.\n *\n * @sample samples.text.Strings.stringIfBlank\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifBlank(defaultValue: () -> R):
R where C : CharSequence, C : R =\n    if (isBlank()) defaultValue() else this\n\n\n/**\n * Returns the range of valid
character indices for this char sequence.\n *\n@kotlin.internal.InlineOnly\npublic val CharSequence.indices: IntRange\n    get() = 0..length -
1\n\n\n/**\n * Returns the index of the last character in the char sequence or
-1 if it is empty.\n *\n@kotlin.internal.InlineOnly\npublic val CharSequence.lastIndex: Int\n    get() = this.length - 1\n\n\n/**\n * Returns `true` if
this CharSequence has Unicode surrogate pair at the specified [index].\n *\n@kotlin.internal.InlineOnly\npublic fun
CharSequence.hasSurrogatePairAt(index: Int): Boolean {\n    return index in 0..length - 2\n        &&
this[index].isHighSurrogate()\n        && this[index + 1].isLowSurrogate()\n}\n\n\n/**\n * Returns a substring
specified by the given [range] of indices.\n *\n@kotlin.internal.InlineOnly\npublic fun String.substring(range: IntRange): String =
substring(range.start, range.endInclusive + 1)\n\n\n/**\n * Returns a subsequence of this char sequence specified by
the given [range] of indices.\n *\n@kotlin.internal.InlineOnly\npublic fun CharSequence.subSequence(range: IntRange): CharSequence =
subSequence(range.start, range.endInclusive + 1)\n\n\n/**\n * Returns a subsequence of this char sequence.\n *\n *
This extension is chosen only for invocation with old-named parameters.\n * Replace parameter names with the
same as those of [CharSequence.subSequence].\n
*\n@kotlin.internal.InlineOnly\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false
warning\n@Deprecated("Use parameters named startIndex and endIndex.", ReplaceWith("subSequence(startIndex
= start, endIndex = end)"))\npublic inline fun String.subSequence(start: Int, end: Int): CharSequence =
subSequence(start, end)\n\n\n/**\n * Returns a substring of chars from a range of this char sequence starting at the
[startIndex] and ending right before the [endIndex].\n *\n * @param startIndex the start index (inclusive).\n *
@param endIndex the end index (exclusive). If not specified, the length of the char sequence is used.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.substring(startIndex: Int, endIndex: Int = length):

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String = subSequence(startIndex, endIndex).toString()\n\n/**\n * Returns a substring of chars at indices from the
specified [range] of this char sequence.\n */\npublic fun CharSequence.substring(range: IntRange): String =
subSequence(range.start,
    range.endInclusive + 1).toString()\n\n/**\n * Returns a substring before the first occurrence of [delimiter].\n * If the
string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n
*/\npublic fun String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String {\n    val index
= indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n *
Returns a substring before the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBefore(delimiter:
String, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1)
missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring after the first occurrence of
[delimiter].\n * If the string does not contain the delimiter,
returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun
String.substringAfter(delimiter: Char, missingDelimiterValue: String = this): String {\n    val index =
indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(index + 1, length)\n}\n\n/**\n *
Returns a substring after the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringAfter(delimiter:
String, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1)
missingDelimiterValue else substring(index + delimiter.length, length)\n}\n\n/**\n * Returns a substring before the
last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which
defaults to the original string.\n */\npublic fun String.substringBeforeLast(delimiter: Char,
    missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1)
missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring before the last occurrence of
[delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the
original string.\n */\npublic fun String.substringBeforeLast(delimiter: String, missingDelimiterValue: String = this):
String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(0,
index)\n}\n\n/**\n * Returns a substring after the last occurrence of [delimiter].\n * If the string does not contain the
delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun
String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String {\n    val index =
lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(index
+ 1, length)\n}\n\n/**\n * Returns a substring after the last occurrence of [delimiter].\n * If the string does not
contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun
String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {\n    val index =
lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(index + delimiter.length,
length)\n}\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the given range\n
* is replaced with the [replacement] char sequence.\n * @param startIndex the index of the first character to be
replaced.\n * @param endIndex the index of the first character after the replacement to keep in the string.\n
*/\n@OptIn(ExperimentalStdlibApi::class)\npublic fun CharSequence.replaceRange(startIndex: Int, endIndex: Int,
replacement: CharSequence): CharSequence {\n    if (endIndex < startIndex)\n        throw
IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")\n    val sb =
StringBuilder()\n    sb.appendRange(this, 0, startIndex)\n    sb.append(replacement)\n    sb.appendRange(this,
endIndex, length)\n    return sb\n}\n\n/**\n * Replaces the part of the string at the given range with the
[replacement] char sequence.\n * @param startIndex the index of the first character to be replaced.\n * @param
endIndex the index of the first character after the replacement to keep in the string.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(startIndex: Int, endIndex: Int, replacement:
CharSequence): String =\n    (this as CharSequence).replaceRange(startIndex, endIndex,
replacement).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the
given [range]\n * is replaced with the [replacement] char sequence.\n * \n * The end index of the [range] is included

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in the part to be replaced.\n \*/\npublic

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fun CharSequence.replaceRange(range: IntRange, replacement: CharSequence): CharSequence =\n    replaceRange(range.start, range.endInclusive + 1, replacement)\n\n/**\n * Replace the part of string at the given\n [range] with the [replacement] string.\n */\n * The end index of the [range] is included in the part to be replaced.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(range: IntRange, replacement:\n    CharSequence): String =\n    (this as CharSequence).replaceRange(range, replacement).toString()\n\n/**\n * Returns\n a char sequence with content of this char sequence where its part at the given range is removed.\n */\n * @param\n startIndex the index of the first character to be removed.\n * @param endIndex the index of the first character after\n the removed part to keep in the string.\n */\n * [endIndex] is not included in the removed part.\n */\n@OptIn(ExperimentalStdlibApi::class)\npublic fun CharSequence.removeRange(startIndex: Int, endIndex: Int):\n    CharSequence\n\n    {\n        if (endIndex < startIndex)\n            throw IndexOutOfBoundsException("End index ($endIndex) is less than\n start index ($startIndex).")\n        if (endIndex == startIndex)\n            return this.subSequence(0, length)\n        val sb =\n            StringBuilder(length - (endIndex - startIndex))\n        sb.appendRange(this, 0, startIndex)\n        sb.appendRange(this,\n            endIndex, length)\n        return sb\n    }\n\n/**\n * Removes the part of a string at a given range.\n */\n * @param startIndex\n the index of the first character to be removed.\n * @param endIndex the index of the first character after the\n removed part to keep in the string.\n */\n * [endIndex] is not included in the removed part.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.removeRange(startIndex: Int, endIndex: Int): String =\n    (this as CharSequence).removeRange(startIndex, endIndex).toString()\n\n/**\n * Returns a char sequence with\n content of this char sequence where its part at the given [range] is removed.\n */\n * The end index\n of the [range] is included in the removed part.\n */\npublic fun CharSequence.removeRange(range: IntRange):\n    CharSequence =\n    removeRange(range.start, range.endInclusive + 1)\n\n/**\n * Removes the part of a string at the\n given [range].\n */\n * The end index of the [range] is included in the removed part.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.removeRange(range: IntRange): String =\n    (this as\n    CharSequence).removeRange(range).toString()\n\n/**\n * If this char sequence starts with the given [prefix], returns\n a new char sequence\n * with the prefix removed. Otherwise, returns a new char sequence with the same\n characters.\n */\npublic fun CharSequence.removePrefix(prefix: CharSequence): CharSequence {\n    if\n    (startsWith(prefix)) {\n        return subSequence(prefix.length, length)\n    }\n    return subSequence(0,\n        length)\n}\n\n/**\n * If this string starts with the given [prefix], returns a copy of this string\n * with the prefix\n removed. Otherwise, returns this string.\n */\npublic fun String.removePrefix(prefix: CharSequence): String {\n    if\n    (startsWith(prefix)) {\n        return\n        substring(prefix.length)\n    }\n    return this\n}\n\n/**\n * If this char sequence ends with the given [suffix], returns\n a new char sequence\n * with the suffix removed. Otherwise, returns a new char sequence with the same\n characters.\n */\npublic fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence {\n    if\n    (endsWith(suffix)) {\n        return\n        subSequence(0, length - suffix.length)\n    }\n    return\n    subSequence(0,\n        length)\n}\n\n/**\n * If this string ends with the given [suffix], returns a copy of this string\n * with the suffix\n removed. Otherwise, returns this string.\n */\npublic fun String.removeSuffix(suffix: CharSequence): String {\n    if\n    (endsWith(suffix)) {\n        return\n        substring(0, length - suffix.length)\n    }\n    return\n    this\n}\n\n/**\n * When this\n char sequence starts with the given [prefix] and ends with the given [suffix],\n * returns\n a new char sequence having both the given [prefix] and [suffix] removed.\n * Otherwise returns a new char\n sequence with the same characters.\n */\npublic fun CharSequence.removeSurrounding(prefix: CharSequence,\n    suffix: CharSequence): CharSequence {\n    if\n    ((length >= prefix.length + suffix.length) && startsWith(prefix) &&\n    endsWith(suffix)) {\n        return\n        subSequence(prefix.length, length - suffix.length)\n    }\n    return\n    subSequence(0,\n        length)\n}\n\n/**\n * Removes from a string both the given [prefix] and [suffix] if and only if\n * it starts with the\n [prefix] and ends with the [suffix].\n * Otherwise returns this string unchanged.\n */\npublic fun\n    String.removeSurrounding(prefix: CharSequence, suffix: CharSequence): String {\n    if\n    ((length >= prefix.length +\n    suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n        return\n        substring(prefix.length, length -\n        suffix.length)\n    }\n    return\n    this\n}\n\n/**\n * When this char sequence starts with and ends with the
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given [delimiter],\n \* returns a new char sequence having this [delimiter] removed both from the start and end.\n \* Otherwise returns a new char sequence with the same characters.\n \*/\npublic fun

CharSequence.removeSurrounding(delimiter: CharSequence): CharSequence = removeSurrounding(delimiter, delimiter)\n\n/\*\*\n \* Removes the given [delimiter] string from both the start and the end of this string\n \* if and only if it starts with and ends with the [delimiter].\n \* Otherwise returns this string unchanged.\n \*/\npublic fun

String.removeSurrounding(delimiter: CharSequence): String = removeSurrounding(delimiter, delimiter)\n\n/\*\*\n \* Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun

String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n\n val index = indexOf(delimiter)\n\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/\*\*\n \* Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun

String.replaceBefore(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n\n val index = indexOf(delimiter)\n\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/\*\*\n \* Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun

String.replaceAfter(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n\n val index = indexOf(delimiter)\n\n return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/\*\*\n \* Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun

String.replaceAfter(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n\n val index = indexOf(delimiter)\n\n return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n}\n\n/\*\*\n \* Replace part of string after the last occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun

String.replaceAfterLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n\n val index = lastIndexOf(delimiter)\n\n return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n}\n\n/\*\*\n \* Replace part of string after the last occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun

String.replaceAfterLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n\n val index = lastIndexOf(delimiter)\n\n return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/\*\*\n \* Replace part of string before the last occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun

String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n\n val index = lastIndexOf(delimiter)\n\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/\*\*\n \* Replace part of string before the last occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun

String.replaceBeforeLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n\n val index = lastIndexOf(delimiter)\n\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n// public fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific\n// public fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific\n\n/\*\*\n \* Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression\n \* with the given [replacement].\n \* The [replacement] can consist of any combination of literal text and \$-substitutions. To treat the replacement string\n \* literally escape it with the

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[kotlin.text.Regex.Companion.escapeReplacement] method.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.replace(regex: Regex, replacement: String): String = regex.replace(this, replacement)\n\n/**\n *
Returns a new string obtained by replacing each substring of this char sequence that matches the given regular
expression\n * with the result of the given function [transform] that takes [MatchResult] and returns a string to be
used as a\n * replacement for that match.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.replace(regex: Regex, noinline transform: (MatchResult) -> CharSequence): String =\n
regex.replace(this, transform)\n\n/**\n * Replaces the first occurrence of the given regular expression [regex] in this
char sequence with specified [replacement] expression.\n
*\n * @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for
details.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replaceFirst(regex: Regex, replacement:
String): String = regex.replaceFirst(this, replacement)\n\n/**\n * Returns `true` if this char sequence matches the
given regular expression.\n */\n@kotlin.internal.InlineOnly\npublic infix fun CharSequence.matches(regex:
Regex): Boolean = regex.matches(this)\n\n/**\n * Implementation of [regionMatches] for CharSequences.\n *
Invoked when it's already known that arguments are not Strings, so that no additional type checks are performed.\n
*/\ninternal fun CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int,
ignoreCase: Boolean): Boolean {\n    if ((otherOffset < 0) || (thisOffset < 0) || (thisOffset > this.length - length) ||
(otherOffset > other.length - length)) {\n        return false\n    }\n    for (index in 0 until length) {\n        if (!this[thisOffset + index].equals(other[otherOffset + index], ignoreCase))\n            return false\n    }\n    return true\n}\n\n/**\n * Returns `true` if this char sequence starts with the specified
character.\n */\npublic fun CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n
this.length > 0 && this[0].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence ends with the
specified character.\n */\npublic fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n
this.length > 0 && this[lastIndex].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence starts
with the specified prefix.\n */\npublic fun CharSequence.startsWith(prefix: CharSequence, ignoreCase: Boolean =
false): Boolean {\n    if (!ignoreCase && this is String && prefix is String)\n        return this.startsWith(prefix)\n    else\n        return regionMatchesImpl(0, prefix, 0, prefix.length,
ignoreCase)\n}\n\n/**\n * Returns `true` if a substring of this char sequence starting at the specified offset
[startIndex] starts with the specified prefix.\n */\npublic fun CharSequence.startsWith(prefix: CharSequence,
startIndex: Int, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase && this is String && prefix is String)\n        return this.startsWith(prefix, startIndex)\n    else\n        return regionMatchesImpl(startIndex, prefix, 0,
prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if this char sequence ends with the specified suffix.\n
*/\npublic fun CharSequence.endsWith(suffix: CharSequence, ignoreCase: Boolean = false): Boolean {\n    if
(ignoreCase && this is String && suffix is String)\n        return this.endsWith(suffix)\n    else\n        return
regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length, ignoreCase)\n}\n\n/**\n * Returns the longest string `prefix` such that this char sequence and [other]
char sequence both start with this prefix,\n * taking care not to split surrogate pairs.\n * If this and [other] have no
common prefix, returns the empty string.\n\n * @param ignoreCase `true` to ignore character case when matching a
character. By default `false`.\n */\n@sample samples.text.Strings.commonPrefixWith\n\npublic fun
CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n    val
shortestLength = minOf(this.length, other.length)\n    var i = 0\n    while (i < shortestLength &&
this[i].equals(other[i], ignoreCase = ignoreCase)) {\n        i++\n    }\n    if (this.hasSurrogatePairAt(i - 1) ||
other.hasSurrogatePairAt(i - 1)) {\n        i--\n    }\n    return subSequence(0, i).toString()\n}\n\n/**\n * Returns the
longest string `suffix` such that this char sequence and [other] char sequence both end with this suffix,\n * taking
care not to split surrogate pairs.\n * If this and [other] have no common suffix, returns the empty string.\n\n *
@param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n */\n@sample
samples.text.Strings.commonSuffixWith\n\npublic fun CharSequence.commonSuffixWith(other: CharSequence,
ignoreCase: Boolean = false): String {\n    val thisLength = this.length\n    val otherLength = other.length\n    val
shortestLength = minOf(thisLength, otherLength)\n    var i = 0\n    while (i < shortestLength && this[thisLength -

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i - 1].equals(other[otherLength - i - 1], ignoreCase = ignoreCase)) {\n    i++\n } \n if
(this.hasSurrogatePairAt(thisLength - i - 1) || other.hasSurrogatePairAt(otherLength - i - 1)) {\n    i--\n } \n
return subSequence(thisLength - i, thisLength).toString()\n}\n\n// indexOfAny()\n\n/**\n * Finds the index of the
first occurrence of any of the specified [chars] in this char sequence,\n * starting from the specified [startIndex] and
optionally ignoring the case.\n *\n * @param ignoreCase `true` to ignore character case
when matching a character. By default `false`.\n *\n * @return An index of the first occurrence of matched character
from [chars] or -1 if none of [chars] are found.\n *\n */\n\npublic fun CharSequence.indexOfAny(chars: CharArray,
startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n    if (!ignoreCase && chars.size == 1 && this is String) {\n
        val char = chars.single()\n        return nativeIndexOf(char, startIndex)\n    }\n\n    for (index in
startIndex.coerceAtLeast(0)..lastIndex) {\n        val charAtIndex = get(index)\n        if (chars.any {
it.equals(charAtIndex, ignoreCase) })\n            return index\n    }\n    return -1\n}\n\n/**\n * Finds the index of the
last occurrence of any of the specified [chars] in this char sequence,\n * starting from the specified [startIndex] and
optionally ignoring the case.\n *\n * @param startIndex The index of character to start searching at. The search
proceeds backward toward the beginning of the string.\n *\n * @param ignoreCase `true` to
ignore character case when matching a character. By default `false`.\n *\n * @return An index of the last occurrence of
matched character from [chars] or -1 if none of [chars] are found.\n *\n */\n\npublic fun
CharSequence.lastIndexOfAny(chars: CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n
    if (!ignoreCase && chars.size == 1 && this is String) {\n        val char = chars.single()\n        return
nativeLastIndexOf(char, startIndex)\n    }\n\n    for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {\n
        val charAtIndex = get(index)\n        if (chars.any { it.equals(charAtIndex, ignoreCase) })\n            return index\n
    }\n    return -1\n}\n\nprivate fun CharSequence.indexOf(other: CharSequence, startIndex: Int, endIndex: Int,
ignoreCase: Boolean, last: Boolean = false): Int {\n    val indices = if (!last)\n        startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)\n    else\n        startIndex.coerceAtMost(lastIndex)
downTo endIndex.coerceAtLeast(0)\n\n    if (this is String && other is String) { // smart cast\n        for (index in indices) {\n            if
(other.regionMatches(0, this, index, other.length, ignoreCase))\n                return index\n        }\n    } else {\n        for
(index in indices) {\n            if (other.regionMatchesImpl(0, this, index, other.length, ignoreCase))\n                return
index\n        }\n    }\n    return -1\n}\n\nprivate fun CharSequence.findAnyOf(strings: Collection<String>,
startIndex: Int, ignoreCase: Boolean, last: Boolean): Pair<Int, String>? {\n    if (!ignoreCase && strings.size == 1)
{\n        val string = strings.single()\n        val index = if (!last) indexOf(string, startIndex) else lastIndexOf(string,
startIndex)\n        return if (index < 0) null else index to string\n    }\n\n    val indices = if (!last)
startIndex.coerceAtLeast(0)..length else startIndex.coerceAtMost(lastIndex) downTo 0\n\n    if (this is String) {\n
        for (index in indices)
        {\n            val matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length, ignoreCase) }\n
            if (matchingString != null)\n                return index to matchingString\n        }\n    } else {\n        for (index in
indices) {\n            val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length,
ignoreCase) }\n            if (matchingString != null)\n                return index to matchingString\n        }\n    }\n
    return null\n}\n\n/**\n * Finds the first occurrence of any of the specified [strings] in this char sequence,\n * starting
from the specified [startIndex] and optionally ignoring the case.\n *\n * @param ignoreCase `true` to ignore
character case when matching a string. By default `false`.\n *\n * @return A pair of an index of the first occurrence of
matched string from [strings] and the string matched\n * or `null` if none of [strings] are found.\n *\n * To avoid
ambiguous results when strings in [strings]
have characters in common, this method proceeds from\n * the beginning to the end of this string, and finds at each
position the first element in [strings]\n * that matches this string at that position.\n *\n */\n\npublic fun
CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Pair<Int,
String>? =\n    findAnyOf(strings, startIndex, ignoreCase, last = false)\n}\n\n/**\n * Finds the last occurrence of any of
the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the
case.\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward

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indexOf(string, startIndex, 0, ignoreCase, last = true)\n else\n nativeLastIndexOf(string,
startIndex)\n}\n\n/**\n * Returns `true` if this char sequence contains the specified [other] sequence of characters as
a substring.\n *\n * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.\n
*/\n\n@Suppress("INAPPLICABLE_OPERATOR_MODIFIER")\npublic operator fun
CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =\n if (other is String)\n indexOf(other, ignoreCase = ignoreCase) >= 0\n else\n indexOf(other, 0, length, ignoreCase) >=
0\n\n\n/**\n * Returns `true` if this char sequence contains the specified character [char].\n *\n * @param
ignoreCase `true` to ignore character case when comparing characters. By default `false`.\n
*/\n\n@Suppress("INAPPLICABLE_OPERATOR_MODIFIER")\npublic operator fun CharSequence.contains(char:
Char, ignoreCase: Boolean = false): Boolean =\n indexOf(char,
ignoreCase = ignoreCase) >= 0\n\n\n/**\n * Returns `true` if this char sequence contains at least one match of the
specified regular expression [regex].\n */\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
CharSequence.contains(regex: Regex): Boolean = regex.containsMatchIn(this)\n\n\n//
rangesDelimitedBy\n\n\nprivate class DelimitedRangesSequence(\n private val input: CharSequence,\n private
val startIndex: Int,\n private val limit: Int,\n private val getNextMatch: CharSequence.(currentIndex: Int) ->
Pair<Int, Int>?> : Sequence<IntRange> {\n\n override fun iterator(): Iterator<IntRange> = object :
Iterator<IntRange> {\n var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n var
currentStartIndex: Int = startIndex.coerceIn(0, input.length)\n var nextSearchIndex: Int = currentStartIndex\n
var nextItem: IntRange? = null\n var counter: Int = 0\n private fun calcNext() {\n if
(nextSearchIndex
< 0) {\n nextState = 0\n nextItem = null\n } else {\n if (limit > 0 && ++counter
>= limit || nextSearchIndex > input.length) {\n nextItem = currentStartIndex..input.lastIndex\n
nextSearchIndex = -1\n } else {\n val match = input.getNextMatch(nextSearchIndex)\n
if (match == null) {\n nextItem = currentStartIndex..input.lastIndex\n
nextSearchIndex = -1\n } else {\n val (index, length) = match\n nextItem =
currentStartIndex until index\n currentStartIndex = index + length\n nextSearchIndex =
currentStartIndex + if (length == 0) 1 else 0\n }\n }\n nextState = 1\n }\n
}\n\n override fun next(): IntRange {\n
if (nextState == -1)\n calcNext()\n if (nextState == 0)\n throw
NoSuchElementException()\n val result = nextItem as IntRange\n // Clean next to avoid keeping
reference on yielded instance\n nextItem = null\n nextState = -1\n return result\n }\n\n
override fun hasNext(): Boolean {\n if (nextState == -1)\n calcNext()\n return nextState ==
1\n }\n }\n }\n}\n\n\n/**\n * Returns a sequence of index ranges of substrings in this char sequence around
occurrences of the specified [delimiters].\n *\n * @param delimiters One or more characters to be used as
delimiters.\n *\n * @param startIndex The index to start searching delimiters from.\n *\n * No range having its start value
less than [startIndex] is returned.\n *\n * [startIndex] is coerced to be non-negative and not greater than length of this
string.\n *\n * @param ignoreCase `true` to ignore character
case when matching a delimiter. By default `false`.\n *\n * @param limit The maximum number of substrings to return.
Zero by default means no limit is set.\n */\n\nprivate fun CharSequence.rangesDelimitedBy(delimiters: CharArray,
startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\n require(limit >= 0, {
"Limit must be non-negative, but was $limit." })\n\n return DelimitedRangesSequence(this, startIndex, limit, {
currentIndex ->\n indexOfAny(delimiters, currentIndex, ignoreCase = ignoreCase).let { if (it < 0) null else it to
1 }\n })\n }\n}\n\n\n\n/**\n * Returns a sequence of index ranges of substrings in this char sequence around occurrences
of the specified [delimiters].\n *\n * @param delimiters One or more strings to be used as delimiters.\n *\n * @param
startIndex The index to start searching delimiters from.\n *\n * No range having its start value less than [startIndex] is
returned.\n *\n * [startIndex] is coerced to be non-negative and not greater
than length of this string.\n *\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By
default `false`.\n *\n * @param limit The maximum number of substrings to return. Zero by default means no limit is

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set.\n *\n * To avoid ambiguous results when strings in [delimiters] have characters in common, this method
proceeds from\n * the beginning to the end of this string, and finds at each position the first element in [delimiters]\n
*\n * that matches this string at that position.\n *\nprivate fun CharSequence.rangesDelimitedBy(delimiters: Array<out
String>, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\n    require(limit >=
0, { "\Limit must be non-negative, but was $limit." })\n    val delimitersList = delimiters.asList()\n    return
DelimitedRangesSequence(this, startIndex, limit, { currentIndex -> findAnyOf(delimitersList, currentIndex,
ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length } })\n}\n\n//
split\n\n/**\n * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].\n
*\n * @param delimiters One or more strings to be used as delimiters.\n * @param ignoreCase `true` to ignore
character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings
to return. Zero by default means no limit is set.\n *\n * To avoid ambiguous results when strings in [delimiters] have
characters in common, this method proceeds from\n * the beginning to the end of this string, and finds at each
position the first element in [delimiters]\n * that matches this string at that position.\n *\npublic fun
CharSequence.splitToSequence(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0):
Sequence<String> =\n    rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it)
}\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified
[delimiters].\n *\n * @param delimiters One or more strings to be used as delimiters.\n * @param ignoreCase `true`
to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of
substrings to return. Zero by default means no limit is set.\n *\n * To avoid ambiguous results when strings in
[delimiters] have characters in common, this method proceeds from\n * the beginning to the end of this string, and
matches at each position the first element in [delimiters]\n * that is equal to a delimiter in this instance at that
position.\n *\npublic fun CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0):
List<String> {\n    if (delimiters.size == 1) {\n        val delimiter = delimiters[0]\n        if (!delimiter.isEmpty()) {\n
            return split(delimiter, ignoreCase, limit)\n        }\n    }\n    return rangesDelimitedBy(delimiters, ignoreCase =
ignoreCase, limit = limit).asIterable().map { substring(it)
}\n}\n\n/**\n * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].\n
*\n * @param delimiters One or more characters to be used as delimiters.\n * @param ignoreCase `true` to ignore
character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings
to return.\n *\npublic fun CharSequence.splitToSequence(vararg delimiters: Char, ignoreCase: Boolean = false,
limit: Int = 0): Sequence<String> =\n    rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map
{ substring(it) }\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified
[delimiters].\n *\n * @param delimiters One or more characters to be used as delimiters.\n * @param ignoreCase
`true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum
number of substrings to return.\n *\npublic fun CharSequence.split(vararg delimiters: Char, ignoreCase:
Boolean = false, limit: Int = 0): List<String> {\n    if (delimiters.size == 1) {\n        return
split(delimiters[0].toString(), ignoreCase, limit)\n    }\n    return rangesDelimitedBy(delimiters, ignoreCase =
ignoreCase, limit = limit).asIterable().map { substring(it) }\n}\n\n/**\n * Splits this char sequence to a list of strings
around occurrences of the specified [delimiter].\n * This is specialized version of split which receives single non-
empty delimiter and offers better performance\n *\n * @param delimiter String used as delimiter\n * @param
ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The
maximum number of substrings to return.\n *\nprivate fun CharSequence.split(delimiter: String, ignoreCase:
Boolean, limit: Int): List<String> {\n    require(limit >= 0, { "\Limit must be non-negative, but was $limit." })\n
    var currentOffset = 0\n    var nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\n
    if (nextIndex == -1 || limit == 1) {\n        return listOf(this.toString())\n    }\n    val isLimited = limit > 0\n    val
result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)\n    do {\n
        result.add(substring(currentOffset, nextIndex))\n        currentOffset = nextIndex + delimiter.length\n        // Do not
search for next occurrence if we're reaching limit\n        if (isLimited && result.size == limit - 1) break\n
        nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\n    } while (nextIndex != -1)\n}

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Array<String>?

```
= asDynamic().match(regex)\n\n//native public fun String.trim(): String\n//TODO: String.replace to implement effective trimLeading and trimTrailing\n\n@kotlin.internal.InlineOnly\ninternal inline fun String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern, replacement)\n\n@SinceKotlin("1.2")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {\n    if (ignoreCase) {\n        val n1 = this.length\n        val n2 = other.length\n        val min = minOf(n1, n2)\n        if (min == 0) return n1 - n2\n        var start = 0\n        while (true) {\n            val end = minOf(start + 16, min)\n            var s1 = this.substring(start, end)\n            var s2 = other.substring(start, end)\n            if (s1 != s2) {\n                s1 = s1.toUpperCase()\n                s2 = s2.toUpperCase()\n                if (s1 != s2) {\n                    s1 = s1.toLowerCase()\n                    s2 = s2.toLowerCase()\n                    if (s1 != s2) {\n                        return s1.compareTo(s2)\n                    }\n                }\n            }\n            if (end == min) break\n            start = end\n        }\n        return n1 - n2\n    } else {\n        return compareTo(other)\n    }\n}\n\nprivate val STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true) }\n\n@SinceKotlin("1.2")\npublic actual val String.Companion.CASE_INSENSITIVE_ORDER: Comparator<String>\n    get() = STRING_CASE_INSENSITIVE_ORDER\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class UByteArray\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {\n    /** Creates a new array of the specified [size], with all elements initialized to zero. */\n    public constructor(size: Int) : this(ByteArray(size))\n    /**\n     * Returns the array element at the given [index]. This method can be called using the index operator.\n     * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     */\n    public operator fun get(index: Int): UByte = storage[index].toUByte()\n    /**\n     * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\n     * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     */\n    public operator fun set(index: Int, value: UByte) {\n        storage[index] = value.toByte()\n    }\n    /** Returns the number of elements in the array. */\n    public override val size: Int get() = storage.size\n    /** Creates an iterator over the elements of the array. */\n    public override operator fun iterator(): UByteIterator = Iterator(storage)\n    private class Iterator(private val array: ByteArray) : UByteIterator() {\n        private var index = 0\n        override fun hasNext() = index < array.size\n        override fun nextUByte() = if (index < array.size) array[index++].toUByte() else throw NoSuchElementException(index.toString())\n    }\n    override fun contains(element: UByte): Boolean {\n        // TODO: Eliminate this check after KT-30016 gets fixed.\n        // Currently JS BE does not generate special bridge method for this method.\n        @Suppress("USELESS_CAST")\n        if ((element as Any?) !is UByte) return false\n        return storage.contains(element.toByte())\n    }\n    override fun containsAll(elements: Collection<UByte>): Boolean {\n        return (elements as Collection<*>).all { it is UByte && storage.contains(it.toByte()) }\n    }\n    override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init] function.\n * The function [init] is called for each array element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray {\n    return UByteArray(ByteArray(size) { index -> init(index).toByte() })\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
```

```

ubyteArrayOf(vararg elements: UByte): UByteArray = elements\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and
 * Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
 * can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class
UIntArray\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@PublishedAp
i\ninternal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> {\n\n /** Creates a new
array of the specified [size], with all elements initialized to zero. *\n public constructor(size: Int) :
this(IntArray(size))\n\n /**\n * Returns the array element at the given [index]. This method can be called using
the index operator.\n *\n * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsExcep
tion] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n public
operator fun get(index: Int): UInt = storage[index].toInt()\n\n /**\n * Sets the element at the given [index] to the given [value]. This method can be called using the index
operator.\n *\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsExcep
tion] except
in Kotlin/JS\n * where the behavior is unspecified.\n *\n public operator fun set(index: Int, value: UInt) {\n
storage[index] = value.toInt()\n }\n\n /** Returns the number of elements in the array. *\n public override
val size: Int get() = storage.size\n\n /** Creates an iterator over the elements of the array. *\n public override
operator fun iterator(): UIntIterator = Iterator(storage)\n\n private class Iterator(private val array: IntArray) :
UIntIterator() {\n private var index = 0\n override fun hasNext() = index < array.size\n override fun
nextUInt() = if (index < array.size) array[index++].toInt() else throw
NoSuchElementExcep
tion(index.toString())\n }\n\n override fun contains(element:
UInt): Boolean {\n // TODO: Eliminate this check after KT-30016 gets fixed.\n // Currently JS BE does not
generate special bridge method for this method.\n @Suppress("USELESS_CAST")\n if ((element as
Any?) !is UInt) return false\n return storage.contains(element.toInt())\n }\n\n override fun
containsAll(elements: Collection<UInt>): Boolean {\n return (elements as Collection<*>).all { it is UInt &&
storage.contains(it.toInt()) }\n }\n\n override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n *
Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init]
function.\n *\n * The function [init] is called for each array element sequentially starting from the first one.\n * It
should return the value for an array element given its index.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray(size: Int, init:
(Int) -> UInt): UIntArray {\n return UIntArray(IntArray(size) { index -> init(index).toInt()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
uintArrayOf(vararg elements: UInt): UIntArray = elements\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and
 * Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
 * can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class
ULongArray\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@Published
Api\ninternal constructor(@PublishedApi internal val storage: LongArray) : Collection<ULong> {\n\n /** Creates
a new array of the specified [size], with all elements initialized to zero. *\n public constructor(size: Int) :
this(LongArray(size))\n\n /**\n * Returns the array element at the given
[index]. This method can be called using the index operator.\n *\n * If the [index] is out of bounds of this
array, throws an [IndexOutOfBoundsExcep
tion] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n public
operator fun get(index: Int): ULong = storage[index].toULong()\n\n /**\n * Sets the element at the
given [index] to the given [value]. This method can be called using the index operator.\n *\n * If the [index] is
out of bounds of this array, throws an [IndexOutOfBoundsExcep
tion] except in Kotlin/JS\n * where the behavior
is unspecified.\n *\n public operator fun set(index: Int, value: ULong) {\n storage[index] =
value.toLong()\n }\n\n /** Returns the number of elements in the array. *\n public override val size: Int get()
= storage.size\n\n /** Creates an iterator over the elements of the array. *\n public override operator fun

```

```

iterator(): ULongIterator = Iterator(storage)\n\n private class
Iterator(private val array: LongArray) : ULongIterator() {\n private var index = 0\n override fun hasNext()
= index < array.size\n override fun nextULong() = if (index < array.size) array[index++].toULong() else throw
NoSuchElementException(index.toString())\n }\n\n override fun contains(element: ULong): Boolean {\n //
TODO: Eliminate this check after KT-30016 gets fixed.\n // Currently JS BE does not generate special bridge
method for this method.\n @Suppress(\"USELESS_CAST\")\n if ((element as Any?) !is ULong) return
false\n\n return storage.contains(element.toLong())\n }\n\n override fun containsAll(elements:
Collection<ULong>): Boolean {\n return (elements as Collection<*>).all { it is ULong &&
storage.contains(it.toLong()) }\n }\n\n override fun isEmpty(): Boolean = this.storage.size == 0}\n\n/**\n *
Creates a new array of the specified [size], where each element is calculated by calling the specified\n
* [init] function.\n *\n * The function [init] is called for each array element sequentially starting from the first
one.\n * It should return the value for an array element given its index.\n
*\n*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray(size: Int, init: (Int) -> ULong): ULongArray {\n return ULongArray(LongArray(size) { index ->
init(index).toLong()
})\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ulongArrayOf(vararg elements: ULong): ULongArray = elements\n\n\n/**\n * Copyright 2010-2020 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n *\n*\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline class
UShortArray\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\n@Published
Api\ninternal
constructor(@PublishedApi internal val storage: ShortArray) : Collection<UShort> {\n\n /** Creates a new array
of the specified [size], with all elements initialized to zero. *\n public constructor(size: Int) :
this(ShortArray(size))\n\n /**\n * Returns the array element at the given [index]. This method can be called
using the index operator.\n *\n * If the [index] is out of bounds of this array, throws an
[IndexOutOfBounds] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n public
operator fun get(index: Int): UShort = storage[index].toUShort()\n\n /**\n * Sets the element at the given
[index] to the given [value]. This method can be called using the index operator.\n *\n * If the [index] is out of
bounds of this array, throws an [IndexOutOfBounds] except in Kotlin/JS\n * where the behavior is
unspecified.\n *\n public operator fun set(index: Int,
value: UShort) {\n storage[index] = value.toShort()\n }\n\n /** Returns the number of elements in the array.
*\n public override val size: Int get() = storage.size\n\n /** Creates an iterator over the elements of the array.
*\n public override operator fun iterator(): UShortIterator = Iterator(storage)\n\n private class Iterator(private
val array: ShortArray) : UShortIterator() {\n private var index = 0\n override fun hasNext() = index <
array.size\n override fun nextUShort() = if (index < array.size) array[index++].toUShort() else throw
NoSuchElementException(index.toString())\n }\n\n override fun contains(element: UShort): Boolean {\n //
TODO: Eliminate this check after KT-30016 gets fixed.\n // Currently JS BE does not generate special bridge
method for this method.\n @Suppress(\"USELESS_CAST\")\n if ((element as Any?) !is UShort) return
false\n\n return storage.contains(element.toShort())\n
}\n\n override fun containsAll(elements: Collection<UShort>): Boolean {\n return (elements as
Collection<*>).all { it is UShort && storage.contains(it.toShort()) }\n }\n\n override fun isEmpty(): Boolean =
this.storage.size == 0}\n\n/**\n * Creates a new array of the specified [size], where each element is calculated by
calling the specified\n * [init] function.\n *\n * The function [init] is called for each array element sequentially
starting from the first one.\n * It should return the value for an array element given its index.\n
*\n*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray(size: Int, init: (Int) -> UShort): UShortArray {\n return UShortArray(ShortArray(size) { index ->
init(index).toShort()
}

```

```

})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ushortArrayOf(vararg elements: UShort): UShortArray = elements\n",/*\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UArraysKt")\n@file:kotlin.jvm.JvmPacka
geName("kotlin.collections.unsigned")\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-
GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the
size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior
is unspecified.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline operator fun UIntArray.component1(): UInt {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the
array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n
* where the behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component1(): ULong {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n *
If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component1(): UByte {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If
the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component1(): UShort {\n    return get(0)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n
* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component2(): UInt {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If
the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component2(): ULong {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n *
If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline operator fun UByteArray.component2(): UByte {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element* from
the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in
Kotlin/JS\n * where the behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component2(): UShort {\n    return get(1)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n
* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component3(): UInt {\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If
the size of this array is less than 3, throws an [IndexOutOfBoundsException]
except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component3(): ULong {\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n *

```

If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UByteArray.component3(): UByte {\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n *
```

If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UShortArray.component3(): UShort {\n    return get(2)\n}\n\n/**\n * Returns 4th
```

```
 *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException]  
except in Kotlin/JS where the behavior is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UIntArray.component4(): UInt {\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the  
size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior  
is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline operator fun  
ULongArray.component4(): ULong {\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from  
the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in  
Kotlin/JS where the behavior is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline  
operator fun  
UByteArray.component4(): UByte {\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from the  
array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS  
* where the behavior is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UShortArray.component4(): UShort {\n    return get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *  
If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the  
behavior is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UIntArray.component5(): UInt {\n    return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the  
size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior  
is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline operator fun  
ULongArray.component5(): ULong {\n    return get(4)\n}\n\n/**\n * Returns 5th *element*  
from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in  
Kotlin/JS where the behavior is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UByteArray.component5(): UByte {\n    return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *  
If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the  
behavior is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UShortArray.component5(): UShort {\n    return get(4)\n}\n\n/**\n * Returns an element at the given [index] or  
throws an [IndexOutOfBoundsException] if the [index]
```

```
is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun  
UIntArray.elementAt(index: Int):  
UInt\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is  
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun  
ULongArray.elementAt(index: Int):  
ULong\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]  
is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun  
UByteArray.elementAt(index: Int):  
UByte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]
```

is out of bounds of this array.\n

```
* \n * @sample samples.collections.Collections.Elements.elementAt\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.elementAt(index: Int):  
UShort\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the  
[index] is out of bounds of this array.\n * \n * @sample
```

```
samples.collections.Collections.Elements.elementAtOrElse\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n    return if (index >= 0 && index <=  
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of  
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
```

```
samples.collections.Collections.Elements.elementAtOrElse\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline  
fun ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n    return if (index >= 0 &&  
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the  
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
```

```
samples.collections.Collections.Elements.elementAtOrElse\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n    return if (index >= 0 && index  
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result  
of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
```

```
samples.collections.Collections.Elements.elementAtOrElse\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.elementAtOrElse(index:  
Int, defaultValue: (Int) -> UShort): UShort {\n    return if (index >= 0 && index <= lastIndex) get(index) else  
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of  
this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.elementAtOrNull(index: Int): UInt? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an element  
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
```

```
samples.collections.Collections.Elements.elementAtOrNull\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.elementAtOrNull(index: Int): ULong? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an  
element at the given [index] or `null` if the [index] is out of bounds  
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.elementAtOrNull(index: Int): UByte? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an  
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
```

```
samples.collections.Collections.Elements.elementAtOrNull\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.elementAtOrNull(index: Int): UShort? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the  
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
```

```
samples.collections.Collections.Elements.find\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
```

```
samples.collections.Collections.Elements.find\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
```

```
samples.collections.Collections.Elements.find\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
```

```
samples.collections.Collections.Elements.find\n
```

Returns the first element matching the given [predicate], or `null` if no such element was found.

```

*n * @sample
samples.collections.Collections.Elements.find

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns
the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n  return
firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such
element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {\n  return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n *
@sample samples.collections.Collections.Elements.find\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\n  return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {\n  return lastOrNull(predicate)\n}\n\n/**\n *
Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(): UInt {\n  return storage.first().toUInt()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.first(): ULong {\n  return storage.first().toULong()\n}\n\n/**\n * Returns first element.\n *
@throws [NoSuchElementException] if the array is empty.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(): UByte {\n  return storage.first().toUByte()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.first(): UShort {\n  return storage.first().toUShort()\n}\n\n/**\n * Returns the first element matching
the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(predicate: (UInt) -> Boolean): UInt {\n  for
(element in this) if (predicate(element)) return element\n  throw NoSuchElementException("Array contains no
element matching the predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n *
@throws [NoSuchElementException] if no such element is found.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.first(predicate: (ULong) -> Boolean): ULong {\n  for (element in this) if (predicate(element)) return
element\n  throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```



```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.getOrNull(index: Int): UInt? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int):
ULong? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte?
{\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int):
UShort? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of
[element], or -1
if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOf(element: UInt): Int {\n return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first
index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.indexOf(element: ULong): Int {\n return storage.indexOf(element.toLong())\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOf(element: UByte): Int {\n return storage.indexOf(element.toByte())\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOf(element:
UShort): Int {\n return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns index of the first element
matching the given [predicate], or -1 if the array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {\n return storage.indexOfFirst { predicate(it.toUInt())
}\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain
such element.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {\n return storage.indexOfFirst {
predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n return storage.indexOfFirst {
predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n return storage.indexOfFirst {
predicate(it.toUShort()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n return storage.indexOfLast { predicate(it.toUInt())
}\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain
such element.\n

```

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n  return storage.indexOfLast {
predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {\n  return storage.indexOfLast {
predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {\n  return storage.indexOfLast {
predicate(it.toUShort()) }\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException
if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.last(): UInt {\n  return storage.last().toUInt()\n}\n\n/**\n * Returns the last element.\n * \n * @throws
NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.last(): ULong {\n  return storage.last().toULong()\n}\n\n/**\n * Returns the last element.\n * \n *
@throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.last(): UByte {\n  return storage.last().toUByte()\n}\n\n/**\n * Returns the last element.\n * \n *
@throws NoSuchElementException
if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.last(): UShort {\n  return storage.last().toUShort()\n}\n\n/**\n * Returns the last element matching
the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.last(predicate: (UInt) -> Boolean): UInt {\n  for (index in this.indices.reversed()) {\n    val element =
this[index]\n    if (predicate(element)) return element\n  }\n  throw NoSuchElementException("Array contains
no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n *
@throws NoSuchElementException if no such element is found.\n
* \n * @sample samples.collections.Collections.Elements.last\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n  for (index in this.indices.reversed()) {\n    val
element = this[index]\n    if (predicate(element)) return element\n  }\n  throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n
* \n * @sample samples.collections.Collections.Elements.last\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n  for (index in this.indices.reversed()) {\n    val
element = this[index]\n    if (predicate(element)) return element\n  }\n  throw
NoSuchElementException("Array contains no
element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n *
@throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.last(predicate: (UShort) -> Boolean): UShort {\n  for (index in this.indices.reversed()) {\n    val

```

```

element = this[index]\n    if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns last index
of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.lastIndexOf(element: UInt): Int {\n    return storage.lastIndexOf(element.toInt())\n}\n\n/**\n * Returns
last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastIndexOf(element: ULong): Int {\n    return storage.lastIndexOf(element.toLong())\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastIndexOf(element: UByte): Int {\n    return storage.lastIndexOf(element.toByte())\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastIndexOf(element: UShort): Int {\n    return storage.lastIndexOf(element.toShort())\n}\n\n/**\n *
Returns the last element, or `null` if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.lastOrNull():
UInt? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array
is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n *
\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.lastOrNull(): UByte? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n *
\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.lastOrNull(): UShort? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching
the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong? {\n    for (index in this.indices.reversed()) {\n
val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the
last element matching the given [predicate],
or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n    for (index in this.indices.reversed()) {\n
val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n    for (index in this.indices.reversed()) {\n
val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a
random element from this array.\n * \n * @throws

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NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.random(): UInt {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.random(): ULong {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.random(): UByte {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.random():
    UShort {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this array using the specified
source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random: Random): UInt
{\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random):
    ULong {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
    fun UByteArray.random(random: Random): UByte {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
    UShortArray.random(random: Random): UShort {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UIntArray.randomOrNull(): UInt? {\n    return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULongArray.randomOrNull(): ULong? {\n    return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UByteArray.randomOrNull(): UByte? {\n    return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.randomOrNull(): UShort? {\n    return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
public
    fun UIntArray.randomOrNull(random: Random): UInt? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\npublic fun ULongArray.randomOrNull(random: Random): ULong? {\n    if (isEmpty())\n        return null\n    return\n    get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of\n    randomness, or `null` if this array is empty.\n*/\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\npublic fun UByteArray.randomOrNull(random: Random): UByte? {\n    if (isEmpty())\n        return null\n    return\n    get(random.nextInt(size))\n}\n\n/**\n * Returns a\n    random element from this array using the specified source of randomness, or `null` if this array is empty.\n*/\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\npublic fun UShortArray.randomOrNull(random: Random): UShort? {\n    if (isEmpty())\n        return null\n    return\n    get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or\n    has more than one element.\n*/\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UIntArray.single(): UInt {\n    return storage.single().toUInt()\n}\n\n/**\n * Returns the single element, or throws an\n    exception if the array is empty or has more than one element.\n*/\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    ULongArray.single(): ULong {\n    return storage.single().toULong()\n}\n\n/**\n * Returns the single element, or\n    throws an exception if the\n    array is empty or has more than one element.\n*/\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UByteArray.single(): UByte {\n    return storage.single().toUByte()\n}\n\n/**\n * Returns the single element, or\n    throws an exception if the array is empty or has more than one element.\n*/\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UShortArray.single(): UShort {\n    return storage.single().toUShort()\n}\n\n/**\n * Returns the single element\n    matching the given [predicate], or throws exception if there is no or more than one matching element.\n*/\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UIntArray.single(predicate: (UInt) -> Boolean): UInt {\n    var single: UInt? = null\n    var found = false\n    for\n    (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array\n                contains\n                more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found)\n        throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UInt\n}\n\n/**\n * Returns the single element matching\n    the given [predicate], or throws exception if there is no or more than one matching element.\n*/\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    ULongArray.single(predicate: (ULong) -> Boolean): ULong {\n    var single: ULong? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array\n                contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if\n    (!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as ULong\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws\n    exception if there is no or more than one matching element.\n*/\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UByteArray.single(predicate: (UByte) -> Boolean): UByte {\n    var single: UByte? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array\n                contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if\n    (!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UByte\n}\n\n/**\n * Returns the single element\n    matching the given [predicate], or throws exception if there is no or more than one matching element.\n*/

```

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.single(predicate: (UShort) -> Boolean): UShort {
    var single: UShort? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw
IllegalArgumentOutOfRangeException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as UShort
}

* Returns single
element, or `null` if the array is empty or has more than one element.

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UIntArray.singleOrNull(): UInt? {
    return if (size == 1) this[0] else null
}

* Returns single element, or `null` if the array is empty or has more
than one element.

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun
ULongArray.singleOrNull():
    ULong? {
        return if (size == 1) this[0] else null
    }

* Returns single element, or `null` if the array is
empty or has more than one element.

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun
UByteArray.singleOrNull(): UByte? {
    return if (size == 1) this[0] else null
}

* Returns single element,
or `null` if the array is empty or has more than one element.

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UShortArray.singleOrNull(): UShort? {
    return if (size == 1) this[0] else null
}

* Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {
    var single: UInt? = null
    var found = false
    for (element in this) {
        if (predicate(element))
        {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return
null
    return single
}

* Returns the single element matching the given [predicate], or `null` if element
was not found or more than one element was found.

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {
    var single: ULong? = null
    var found =
false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single =
element
            found = true
        }
    }
    if (!found) return null
    return single
}

* Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline
fun
UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {
    var single: UByte? = null
    var found =
false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single =
element
            found = true
        }
    }
    if (!found) return null
    return single
}

* Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline
fun
UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {
    var single: UShort? = null
    var
found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single
= element
            found = true
        }
    }
    if (!found) return null
    return single
}

* Returns a list
containing all elements except first
[n] elements.
* @throws IllegalArgumentException if [n] is negative.
* @sample
samples.collections.Collections.Transformations.drop

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UIntArray.drop(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size -
n).coerceAtLeast(0))
}

* Returns a list containing all elements except first [n] elements.
* @throws
IllegalArgumentException if [n] is negative.
* @sample
samples.collections.Collections.Transformations.drop

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun ULongArray.drop(n: Int): List<ULong> {

```

```

    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.drop(n: Int): List<UByte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.drop(n: Int): List<UShort> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.dropLast(n:
Int): List<UInt> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.dropLast(n: Int):
List<ULong> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.dropLast(n: Int): List<UByte>
{\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return
take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.dropLast(n: Int):
List<UShort> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n        return take(index + 1)\n    }\n}\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    for (index in lastIndex downTo 0)
{\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    for (index in lastIndex downTo 0)
{\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n  for (index in lastIndex downTo
0) {\n    if (!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {\n  var yielding = false\n  val list =
ArrayList<UInt>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n      list.add(item)\n      yielding = true\n    }\n  }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n  var yielding = false\n  val list =
ArrayList<ULong>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item))
{\n      list.add(item)\n      yielding = true\n    }\n  }\n  return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {\n  var yielding = false\n  val
list = ArrayList<UByte>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if
(!predicate(item)) {\n      list.add(item)\n      yielding = true\n    }\n  }\n  return list\n}\n\n/**\n * Returns a list
containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n  var yielding = false\n  val list =
ArrayList<UShort>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item))
{\n      list.add(item)\n      yielding = true\n    }\n  }\n  return list\n}\n\n/**\n * Returns
a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n  return filterTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n  return filterTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filter(predicate:
(UByte) -> Boolean): List<UByte> {\n  return filterTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a
list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {\n  return filterTo(ArrayList<UShort>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```



```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {\n  return filterNotTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {\n  return filterNotTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {\n  return filterNotTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {\n  return
filterNotTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n
* Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C {\n  for
(element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {\n  for
(element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends
all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {\n  for
(element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {\n  for
(element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends
all elements matching the given [predicate] to the given
[destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {\n  for (element
in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) -> Boolean): C {\n  for
(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n

```



```

UShortArray.sliceArray(indices: Collection<Int>): UShortArray {
    return
    UShortArray(storage.sliceArray(indices))
}
/**
 * Returns an array containing elements at indices in the
 * specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sliceArray(indices: IntRange): UIntArray {
    return
    UIntArray(storage.sliceArray(indices))
}
/**
 * Returns an array containing elements at indices in the
 * specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sliceArray(indices: IntRange): ULongArray {
    return
    ULongArray(storage.sliceArray(indices))
}
/**
 * Returns an array containing elements at indices in the
 * specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sliceArray(indices: IntRange): UByteArray {
    return
    UByteArray(storage.sliceArray(indices))
}
/**
 * Returns an array containing elements at indices in the
 * specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sliceArray(indices: IntRange): UShortArray {
    return
    UShortArray(storage.sliceArray(indices))
}
/**
 * Returns a list containing first [n]
 * elements.
 */
@throws IllegalArgumentException if [n] is negative.
@sample
samples.collections.Collections.Transformations.take
/**
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * public fun UIntArray.take(n: Int): List<UInt> {
 *     require(n >= 0) { "Requested element count $n is less than zero." }
 *     if (n == 0) return emptyList()
 *     if (n >=
 * size) return toList()
 *     if (n == 1) return listOf(this[0])
 *     var count = 0
 *     val list = ArrayList<UInt>(n)
 *     for
 * (item in this) {
 *         list.add(item)
 *         if (++count == n)
 *             break
 *     }
 *     return list
 * }
 * /**
 * Returns
 * a list containing first [n] elements.
 */
@throws IllegalArgumentException if [n] is negative.
@sample
samples.collections.Collections.Transformations.take
/**
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * public fun ULongArray.take(n: Int): List<ULong> {
 *     require(n >= 0) { "Requested element count $n is less than zero." }
 *     if (n == 0) return
 * emptyList()
 *     if (n >= size) return toList()
 *     if (n == 1) return listOf(this[0])
 *     var count = 0
 *     val list =
 * ArrayList<ULong>(n)
 *     for (item in this) {
 *         list.add(item)
 *         if (++count == n)
 *             break
 *     }
 *     return list
 * }
 * /**
 * Returns a list containing first [n] elements.
 */
@throws IllegalArgumentException if
 [n] is negative.
@sample
samples.collections.Collections.Transformations.take
/**
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * public fun UByteArray.take(n: Int): List<UByte> {
 *     require(n >= 0) { "Requested element count $n is less than zero." }
 *     if (n == 0) return emptyList()
 *     if (n >=
 * size) return toList()
 *     if (n == 1) return listOf(this[0])
 *     var count = 0
 *     val list = ArrayList<UByte>(n)
 *     for
 * (item in this) {
 *         list.add(item)
 *         if (++count == n)
 *             break
 *     }
 *     return list
 * }
 * /**
 * Returns
 * a list containing first [n] elements.
 */
@throws
 * IllegalArgumentException if [n] is negative.
@sample
samples.collections.Collections.Transformations.take
/**
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * public fun UShortArray.take(n: Int): List<UShort> {
 *     require(n >= 0) { "Requested element count $n is less than zero." }
 *     if (n == 0) return emptyList()
 *     if (n >=
 * size) return toList()
 *     if (n == 1) return listOf(this[0])
 *     var count = 0
 *     val list = ArrayList<UShort>(n)
 *     for
 * (item in this) {
 *         list.add(item)
 *         if (++count == n)
 *             break
 *     }
 *     return list
 * }
 * /**
 * Returns
 * a list containing last [n] elements.
 */
@throws IllegalArgumentException if [n] is negative.
@sample
samples.collections.Collections.Transformations.take
/**
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * public fun UIntArray.takeLast(n: Int): List<UInt> {
 *     require(n >= 0) { "Requested element count $n is less than zero." }
 *     if (n == 0) return emptyList()
 *     val size = size
 *     if (n >= size) return toList()
 *     if (n == 1) return listOf(this[size - 1])
 *     val list =
 * ArrayList<UInt>(n)
 *     for (index in size - n until size)
 *         list.add(this[index])
 *     return list
 * }
 * /**
 * Returns
 * a list containing last [n] elements.
 */
@throws IllegalArgumentException if [n] is negative.
@sample
samples.collections.Collections.Transformations.take
/**
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * public fun ULongArray.takeLast(n: Int): List<ULong>

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{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<ULong>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n\n*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte>
{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<UByte>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n\n*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.takeLast(n: Int): List<UShort>
{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<UShort>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n\n*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index]))\n      return drop(index + 1)\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n\n*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index]))\n      return drop(index + 1)\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n\n*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index]))\n      return drop(index + 1)\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n\n*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index]))\n      return drop(index + 1)\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n\n*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {\n  val list = ArrayList<UInt>()\n  for (item in this) {\n    if (!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n\n*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n  val list = ArrayList<ULong>()\n  for (item in this) {\n    if (!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample

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samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    val list = ArrayList<UByte>()\n    for
(item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    val list = ArrayList<UShort>()\n    for
(item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/**\n * Reverses elements of the array in the specified
range in-place.\n * \n *
@param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range
(exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UIntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex, toIndex)\n}\n\n/**\n *
Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex,
toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex
the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex, toIndex)\n}\n\n/**\n *
Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex, toIndex)\n}\n\n/**\n *
Returns a list with elements in reversed order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.reversed(): List<UInt> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.reversed(): List<ULong> {\n
if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns
a list with elements

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in reversed order.\n *^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ByteArray.reversed(): List<UByte> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n
list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.reversed(): List<UShort> {\n
if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns
an array with elements of this array in reversed order.\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reversedArray(): UIntArray {\n return UIntArray(storage.reversedArray())\n}\n\n/**\n * Returns an
array with elements of this array in reversed order.\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reversedArray(): ULongArray
{\n return ULongArray(storage.reversedArray())\n}\n\n/**\n * Returns an array with elements of this array in
reversed order.\n *^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.reversedArray(): ByteArray {\n return ByteArray(storage.reversedArray())\n}\n\n/**\n
* Returns an array with elements of this array in reversed order.\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reversedArray(): UShortArray {\n return UShortArray(storage.reversedArray())\n}\n\n/**\n *
Randomly shuffles elements in this array in-place.\n
*^@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*^@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements
in this array in-place.\n *^@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
ByteArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-
place.\n *^@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random]
instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%93Yates\_shuffle#The\_modern\_algorithm\n
*^@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(random: Random): Unit
{\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%93Yates\_shuffle#The\_modern\_algorithm\n
*^@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(random: Random):
Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%93Yates\_shuffle#The\_modern\_algorithm\n
*^@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ByteArray.shuffle(random: Random):
Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%93Yates\_shuffle#The\_modern\_algorithm\n
*^@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(random: Random):
Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their
natural sort order.\n *^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements

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in the array in-place descending according to their natural sort order.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sorted(): List<UInt> {\n return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sorted(): List<ULong> {\n return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sorted(): List<UByte> {\n return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sorted(): List<UShort> {\n return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArray(): UIntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArray(): ULongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array
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sorted according to their natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArray(): UByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArray(): UShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArrayDescending(): UIntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArrayDescending(): ULongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArrayDescending(): UByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArrayDescending(): UShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n *\n * The sort is _stable_. It means that equal elements preserve their order relative
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to each other after sorting.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedDescending(): List<UInt> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n *\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n
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*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedDescending():
List<ULong> {\n  return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted
descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve
their order relative to each other after sorting.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic
fun UByteArray.sortedDescending(): List<UByte> {\n  return copyOf().apply { sort() }.reversed()\n}\n\n/**\n *
Returns a list of all elements
sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements
preserve their order relative to each other after sorting.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedDescending():
List<UShort> {\n  return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns an array of type [ByteArray],
which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this
array.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.asByteArray(): ByteArray {\n  return storage\n}\n\n/**\n * Returns an array of type [IntArray], which
is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this
array.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.asIntArray(): IntArray {\n
  return storage\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun UIntArray.asList():
List<UInt>\n\n/**\n * Returns a [List] that wraps the original array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun ULongArray.asList():
List<ULong>\n\n/**\n * Returns a [List] that wraps the original array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun UByteArray.asList():
List<UByte>\n\n/**\n * Returns a [List] that wraps the original array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun UShortArray.asList():
List<UShort>\n\n/**\n * Returns an array of type [LongArray], which is a view of this array where each element is
a signed reinterpretation\n * of the corresponding element of this array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.asLongArray(): LongArray
{\n  return storage\n}\n\n/**\n * Returns an array of type [ShortArray], which is a view of this array where each
element is a signed reinterpretation\n * of the corresponding element of this array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.asShortArray(): ShortArray {\n  return storage\n}\n\n/**\n * Returns an array of type [UByteArray],
which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of
this array.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun ByteArray.asUByteArray(): UByteArray {\n  return UByteArray(this)\n}\n\n/**\n * Returns an array of type
[UIntArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun IntArray.asUIntArray(): UIntArray {\n  return UIntArray(this)\n}\n\n/**\n * Returns an array of type
[ULongArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.asULongArray(): ULongArray {\n  return ULongArray(this)\n}\n\n/**\n * Returns an array of type
[UShortArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.asUShortArray(): UShortArray {\n  return UShortArray(this)\n}\n\n/**\n * Returns `true` if the two
specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the

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same order.\n */\n@Deprecated(\nUse Kotlin compiler 1.4
to avoid deprecation warning.\n)\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.contentEquals(other: UIntArray): Boolean {\n
return this.contentEquals(other)\n}\n\n**\n * Returns `true` if the two specified arrays are *structurally* equal to
one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@Deprecated(\nUse
Kotlin compiler 1.4 to avoid deprecation
warning.\n)\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.contentEquals(other: ULongArray):
Boolean {\n
return this.contentEquals(other)\n}\n\n**\n * Returns `true` if the two specified arrays are
*structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n
*\n */\n@Deprecated(\nUse Kotlin compiler 1.4 to avoid deprecation
warning.\n)\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince
= "1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.contentEquals(other: UByteArray):
Boolean {\n
return this.contentEquals(other)\n}\n\n**\n * Returns `true` if the two specified arrays are
*structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n
*\n */\n@Deprecated(\nUse Kotlin compiler 1.4 to avoid deprecation
warning.\n)\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.contentEquals(other: UShortArray):
Boolean {\n
return this.contentEquals(other)\n}\n\n**\n * Returns `true` if the two specified arrays are
*structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n
*\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray?.contentEquals(other:
UIntArray?): Boolean {\n
return this?.storage.contentEquals(other?.storage)\n}\n\n**\n * Returns `true` if
the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same
elements in the same order.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun
ULongArray?.contentEquals(other: ULongArray?): Boolean {\n
return
this?.storage.contentEquals(other?.storage)\n}\n\n**\n * Returns `true` if the two specified arrays are *structurally*
equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n
*\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray?.contentEquals(other:
UByteArray?): Boolean {\n
return this?.storage.contentEquals(other?.storage)\n}\n\n**\n * Returns `true` if the
two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements
in the same order.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun
UShortArray?.contentEquals(other: UShortArray?): Boolean {\n
return
this?.storage.contentEquals(other?.storage)\n}\n\n**\n * Returns a hash code based on the contents of this array as
if it is [List].\n */\n@Deprecated(\nUse Kotlin compiler 1.4 to avoid deprecation
warning.\n)\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentHashCode(): Int {\n
return
this.contentHashCode()\n}\n\n**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*\n */\n@Deprecated(\nUse Kotlin compiler 1.4 to avoid deprecation
warning.\n)\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentHashCode(): Int {\n
return
this.contentHashCode()\n}\n\n**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*\n */\n@Deprecated(\nUse Kotlin compiler 1.4 to avoid deprecation
warning.\n)\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic
fun UByteArray.contentHashCode(): Int {\n
return this.contentHashCode()\n}\n\n**\n * Returns a hash code
based on the contents of this array as if it is [List].\n */\n@Deprecated(\nUse Kotlin compiler 1.4 to avoid
deprecation warning.\n)\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentHashCode(): Int {\n
return

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this.contentHashCode()\n\n**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray?.contentHashCode(): Int {\n
return this?.storage.contentHashCode()\n}\n\n**\n * Returns a hash code based on the contents of this array as if it
is [List].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray?.contentHashCode(): Int {\n
return this?.storage.contentHashCode()\n}\n\n**\n * Returns a hash
code based on the contents of this array as if it is [List].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray?.contentHashCode(): Int {\n
return this?.storage.contentHashCode()\n}\n\n**\n * Returns a hash code based on the contents of this array as if it
is [List].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray?.contentHashCode(): Int {\n
return this?.storage.contentHashCode()\n}\n\n**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n
\n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*\n@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentToString(): String {\n
return
this.contentToString()\n}\n\n**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n
\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentToString(): String {\n
return
this.contentToString()\n}\n\n**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n
\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentToString(): String {\n
return
this.contentToString()\n}\n\n**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n
\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentToString(): String {\n
return
this.contentToString()\n}\n\n**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n
\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n
\n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n
\n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n
\n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n**\n * Copies this array or its subrange into the
[destination] array and returns that array.\n
\n * It's allowed to pass the same array in the [destination] and even
specify the subrange so that it overlaps with the destination range.\n
\n * @param destination the array to copy
to.\n
\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n
\n * @param

```

startIndex

the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):  
UIntArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return  
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination]
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array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline fun ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex:  
Int = size): ULongArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with  
the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in  
the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to  
copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out  
of range of this array indices
```

or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):  
UByteArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return  
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the  
destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the  
[destination] array
```

to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
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size): UShortArray {\n  storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n  return
destination\n}\n\n/**\n
 * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOfOf(): UIntArray {\n  return UIntArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array which is
a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOfOf(): ULongArray {\n  return ULongArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyOfOf(): UByteArray {\n  return UByteArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array
which is a copy of the original
array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOfOf(): UShortArray {\n  return UShortArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at
the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array
is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the
copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOfOf(newSize: Int): UIntArray {\n  return UIntArray(storage.copyOfOf(newSize))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n *
The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than
the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size
of the original array, the extra elements in the copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOfOf(newSize: Int): ULongArray {\n  return ULongArray(storage.copyOfOf(newSize))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original
array, the extra elements in the copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.copyOfOf(newSize: Int): UByteArray {\n  return
UByteArray(storage.copyOfOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array,
resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n
*\n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If
[newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero
values.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UShortArray.copyOfOf(newSize: Int): UShortArray {\n  return
UShortArray(storage.copyOfOf(newSize))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of
the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end
of the range
(exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOfOfRange(fromIndex: Int, toIndex: Int): UIntArray {\n  return
UIntArray(storage.copyOfOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the

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specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n *
@param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n    return
ULongArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n *
@param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n    return
UByteArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n *
@param toIndex the end of
the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {\n    return
UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the
specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n *
@param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.fill(element: UInt, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toInt(),
fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n *
@param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range
(exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less
than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is
greater than [toIndex].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.fill(element: ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toLong(),
fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n *
@param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex
the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element: UByte,
fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toByte(), fromIndex, toIndex)\n}\n\n/**\n *
Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toShort(), fromIndex, toIndex)\n}\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.indices: IntRange\n    get()

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= storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.indices: IntRange\n
get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.indices: IntRange\n
get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.indices: IntRange\n
get() = storage.indices\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.lastIndex: Int\n  get() =
storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.lastIndex: Int\n  get() =
storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.lastIndex: Int\n  get() =
storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.lastIndex: Int\n  get() =
storage.lastIndex\n\n/**\n * Returns an array containing all elements of the original array and then the given
[element].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
operator fun UIntArray.plus(element: UInt): UIntArray {\n  return UIntArray(storage +
element.toInt())\n}\n\n/**\n
* Returns an array containing all elements of the original array and then the given [element].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.plus(element: ULong): ULongArray {\n  return ULongArray(storage + element.toLong())\n}\n\n/**\n
* Returns an array containing all elements of the original array and then the given [element].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.plus(element: UByte): UByteArray {\n  return UByteArray(storage + element.toByte())\n}\n\n/**\n
* Returns an array containing all elements of the original array and then the given [element].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.plus(element: UShort): UShortArray {\n  return UShortArray(storage +
element.toShort())\n}\n\n/**\n
* Returns an array containing
all elements of the original array and then all elements of the given [elements] collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun UIntArray.plus(elements:
Collection<UInt>): UIntArray {\n  var index = size\n  val result = storage.copyOf(size + elements.size)\n  for
(element in elements) result[index++] = element.toInt()\n  return UIntArray(result)\n}\n\n/**\n
* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun ULongArray.plus(elements:
Collection<ULong>): ULongArray {\n  var index = size\n  val result = storage.copyOf(size + elements.size)\n
for (element in elements) result[index++] = element.toLong()\n  return ULongArray(result)\n}\n\n/**\n
* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {\n  var index = size\n  val result =
storage.copyOf(size + elements.size)\n  for (element in elements) result[index++] = element.toByte()\n  return
UByteArray(result)\n}\n\n/**\n
* Returns an array containing all elements of the original array and then all elements
of the given [elements] collection.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator
fun UShortArray.plus(elements: Collection<UShort>): UShortArray {\n  var index = size\n  val result =
storage.copyOf(size + elements.size)\n  for (element in elements) result[index++] = element.toShort()\n  return
UShortArray(result)\n}\n\n/**\n
* Returns an array containing all elements of the original array and then all
elements of the given [elements] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.plus(elements:

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    UIntArray): UIntArray {\n    return UIntArray(storage + elements.storage)\n}\n\n/**\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] array.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
    ULongArray.plus(elements: ULongArray): ULongArray {\n    return ULongArray(storage +
elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] array.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
    UByteArray.plus(elements: UByteArray): UByteArray {\n    return UByteArray(storage +
elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] array.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
    operator fun UShortArray.plus(elements: UShortArray): UShortArray {\n    return UShortArray(storage +
elements.storage)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
    fun UIntArray.sort(): Unit {\n    if (size > 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n *
@sample samples.collections.Arrays.Sorting.sortArray\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
    fun ULongArray.sort(): Unit {\n    if (size > 1)
sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
    fun UByteArray.sort(): Unit {\n    if (size > 1)
sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n *
@sample samples.collections.Arrays.Sorting.sortArray\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
    fun UShortArray.sort(): Unit {\n    if (size > 1)
sortArray(this, 0, size)\n}\n\n/**\n * Sorts a range in the array in-
place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end
of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sort(fromIndex: Int = 0, toIndex:
Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this, fromIndex,
toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive)
to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this,
fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *
\n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this,
fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
*/

```

```

@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n
    sortArray(this, fromIndex, toIndex)\n}\n\n**\n * Sorts elements of the array in the specified range in-place.\n *
The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the
range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortDescending(fromIndex: Int,
toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n**\n * Sorts elements of
the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive)
to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n**\n * Sorts elements
of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n**\n * Sorts elements
of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n**\n * Returns an
array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.toByteArray(): ByteArray {\n    return storage.copyOf()\n}\n\n**\n * Returns an array of
type [IntArray], which is a copy of this array where each element is a signed reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.toIntArray(): IntArray {\n    return storage.copyOf()\n}\n\n**\n * Returns an array of type [LongArray],
which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.toLongArray(): LongArray {\n    return storage.copyOf()\n}\n\n**\n * Returns an array of type
[ShortArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding
element of
this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.toShortArray(): ShortArray {\n    return storage.copyOf()\n}\n\n**\n * Returns a *typed*
object array containing all of the elements of this primitive array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.toTypedArray(): Array<UInt>
{\n    return Array(size) { index -> this[index] }\n}\n\n**\n * Returns a *typed* object array containing all of the
elements of this primitive array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun

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ULongArray.toArray(): Array<ULong> {
    return Array(size) { index -> this[index] }
}

Returns a *typed* object array containing all of the elements of this primitive array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByteArray.toArray():
Array<UByte> {
    return Array(size) { index -> this[index] }
}

Returns a *typed* object array containing all of the elements of this primitive array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UShortArray.toArray():
Array<UShort> {
    return Array(size) { index -> this[index] }
}

Returns an array of UByte containing all of the elements of this generic array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun
Array<out UByte>.toUByteArray(): UByteArray {
    return UByteArray(size) { index -> this[index] }
}

Returns an array of type [UByteArray], which is a copy of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ByteArray.toUByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

Returns an array of UInt containing all of the elements of this generic array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public
fun Array<out UInt>.toUIntArray(): UIntArray {
    return UIntArray(size) { index -> this[index] }
}

Returns an array of type [UIntArray], which is a copy of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
IntArray.toUIntArray(): UIntArray {
    return UIntArray(this.copyOf())
}

Returns an array of ULong containing all of the elements of this generic array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun Array<out ULong>.toULongArray():
ULongArray {
    return ULongArray(size) { index -> this[index] }
}

Returns an array of type [ULongArray], which is a copy of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public
inline fun LongArray.toULongArray(): ULongArray {
    return ULongArray(this.copyOf())
}

Returns an array of UShort containing all of the elements of this generic array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun Array<out UShort>.toUShortArray():
UShortArray {
    return UShortArray(size) { index -> this[index] }
}

Returns an array of type [UShortArray], which is a copy of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ShortArray.toUShortArray(): UShortArray {
    return UShortArray(this.copyOf())
}

Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

@sample
samples.collections.Collections.Transformations.associateWith

@SinceKotlin("1.4")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <V>
UIntArray.associateWith(valueSelector: (UInt) -> V): Map<UInt, V> {
    val result = LinkedHashMap<UInt, V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

@sample
samples.collections.Collections.Transformations.associateWith

@SinceKotlin("1.4")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <V>
ULongArray.associateWith(valueSelector: (ULong) -> V): Map<ULong,

```

```

V> {\n    val result = LinkedHashMap<ULong, V>(mapCapacity(size).coerceAtLeast(16))\n    return
associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array
and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are
equal, the last\n * one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original
array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UByteArray.associateWith(valueSelector: (UByte) -> V): Map<UByte, V> {\n    val result =
LinkedHashMap<UByte, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each
element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UShortArray.associateWith(valueSelector: (UShort) -> V): Map<UShort, V> {\n    val result =
LinkedHashMap<UShort, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function
applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n
* @sample samples.collections.Collections.Transformations.associateWithTo\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <V, M : MutableMap<in UInt, in V>> UIntArray.associateWithTo(destination: M, valueSelector: (UInt)
-> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function
applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n
* @sample samples.collections.Collections.Transformations.associateWithTo\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in ULong, in V>> ULongArray.associateWithTo(destination: M, valueSelector: (ULong) -> V): M
{\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs
for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector]
function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the
map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in UByte, in V>> UByteArray.associateWithTo(destination: M, valueSelector: (UByte) -> V): M {\n    for
(element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function
applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n
* @sample samples.collections.Collections.Transformations.associateWithTo\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in UShort, in V>> UShortArray.associateWithTo(destination: M, valueSelector: (UShort) -> V): M
{\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>

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```

UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a
single list of all elements yielded from results of [transform] function being invoked on each element of original
array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n
* \n * @sample samples.collections.Collections.Transformations.flatMap\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.flatMapIndexed(transform: (index: Int, UInt) -> Iterable<R>): List<R> {\n  return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being
invoked on each element\n * and its index in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.flatMapIndexed(transform: (index: Int, ULong) -> Iterable<R>): List<R> {\n  return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.flatMapIndexed(transform: (index: Int,
UByte) -> Iterable<R>): List<R> {\n  return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns
a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its
index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.flatMapIndexed(transform: (index: Int, UShort) -> Iterable<R>): List<R> {\n  return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R, C : MutableCollection<in R>> UIntArray.flatMapIndexedTo(destination: C, transform: (index: Int,
UInt) -> Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++,

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element)\n    destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.flatMapIndexedTo(destination: C, transform: (index: Int, ULong) ->
Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++, element)\n
destination.addAll(list)\n
    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original array, to the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, UByte) ->
Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++, element)\n
destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R, C : MutableCollection<in R>> UShortArray.flatMapIndexedTo(destination: C, transform: (index:
Int, UShort) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,
element)\n    destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n    destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of
original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n    destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n    destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element
of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n    destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>

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UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {\n  return groupByTo(LinkedHashMap<K,
  MutableList<UInt>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the
given [keySelector] function\n * applied to each element and returns a map where each group key is associated with
a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration
order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {\n  return
groupByTo(LinkedHashMap<K,
  MutableList<UShort>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function
applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to
the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n *
The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied
to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n *
The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n
 * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by

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the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {\n    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<UInt>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<ULong>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<UByte>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<UShort>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K, valueTransform: (UInt) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group

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key associated with a list of corresponding values.\n \* \n \* @return The [destination] map.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K, valueTransform: (ULong) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K, valueTransform: (UByte) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.map(transform: (UInt) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.map(transform: (ULong) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.map(transform: (UByte) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.map(transform: (UShort) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results
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of applying the given [transform] function\n \* to each element and its index in the original array.\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {\n    return
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mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {\n    return
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mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>>\nUIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>>\nULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>>\nUShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>>\nUByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>>\nUIntArray.mapTo(destination: C, transform: (UInt) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>>\nUShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>>\nUIntArray.mapTo(destination: C, transform: (UInt) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n
```

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*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <R, C :
MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {^n for (item
in this)^n destination.add(transform(item))^n return destination^n}^n/^n/**^n * Applies the given [transform]
function to each element of the original array^n * and appends the results to the given [destination].^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <R, C :
MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {^n for (item in this)^n
destination.add(transform(item))^n return destination^n}^n/^n/**^n * Applies the given [transform] function to
each element of the original array^n * and appends the results to the given [destination].^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <R, C :
MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {^n for (item in
this)^n destination.add(transform(item))^n return destination^n}^n/^n/**^n * Returns a lazy [Iterable] that wraps
each element of the original array^n * into an [IndexedValue] containing the index of that element and the element
itself.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UIntArray.withIndex():
Iterable<IndexedValue<UInt>> {^n return IndexingIterable { iterator() }^n}^n/^n/**^n * Returns a lazy [Iterable]
that wraps each element of the original array^n * into an [IndexedValue] containing the index of that element and the
element itself.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun ULongArray.withIndex():
Iterable<IndexedValue<ULong>> {^n return IndexingIterable { iterator() }^n}^n/^n/**^n * Returns a lazy [Iterable]
that wraps each element of the original array^n * into an [IndexedValue] containing the index of that element and the
element itself.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UByteArray.withIndex():
Iterable<IndexedValue<UByte>> {^n return IndexingIterable { iterator() }^n}^n/^n/**^n * Returns
a lazy [Iterable] that wraps each element of the original array^n * into an [IndexedValue] containing the index of
that element and the element itself.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
UShortArray.withIndex(): Iterable<IndexedValue<UShort>> {^n return IndexingIterable { iterator() }^n}^n/^n/**^n
* Returns `true` if all elements match the given [predicate].^n * ^n * @sample
samples.collections.Collections.Aggregates.all^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntArray.all(predicate: (UInt) -> Boolean): Boolean {^n for (element in this) if (!predicate(element)) return
false^n return true^n}^n/^n/**^n * Returns `true` if all elements match the given [predicate].^n * ^n * @sample
samples.collections.Collections.Aggregates.all^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ULongArray.all(predicate: (ULong) -> Boolean): Boolean {^n
for (element in this) if (!predicate(element)) return false^n return true^n}^n/^n/**^n * Returns `true` if all elements
match the given [predicate].^n * ^n * @sample samples.collections.Collections.Aggregates.all^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UByteArray.all(predicate: (UByte) -> Boolean): Boolean {^n for (element in this) if (!predicate(element)) return
false^n return true^n}^n/^n/**^n * Returns `true` if all elements match the given [predicate].^n * ^n * @sample
samples.collections.Collections.Aggregates.all^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UShortArray.all(predicate: (UShort) -> Boolean): Boolean {^n for (element in this) if (!predicate(element)) return
false^n return true^n}^n/^n/**^n * Returns `true` if array has at least one element.^n * ^n * @sample
samples.collections.Collections.Aggregates.any^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public
inline fun UIntArray.any(): Boolean {^n return storage.any()^n}^n/^n/**^n * Returns `true` if array has at least one
element.^n * ^n * @sample samples.collections.Collections.Aggregates.any^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ULongArray.any(): Boolean {^n return storage.any()^n}^n/^n/**^n * Returns `true` if array has at least one
element.^n * ^n * @sample samples.collections.Collections.Aggregates.any^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun

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UByteArray.any(): Boolean {\n  return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one
element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.any(): Boolean {\n  return storage.any()\n}\n\n/**\n
* Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.any(predicate: (UInt) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n
return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.any(predicate: (ULong) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.any(predicate: (UByte) -> Boolean): Boolean {\n  for (element in this) if
(predicate(element)) return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the
given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.any(predicate: (UShort) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
true\n  return false\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.count(predicate: (UInt) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.count(predicate: (ULong) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying
[operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified
[initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and
an element, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {\n  var accumulator = initial\n  for (element in this)
accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {\n  var accumulator = initial\n  for (element in this)
accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right\n * to current accumulator

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value and each element.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R> UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n }\n \n /\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R> UShortArray.fold(initial: R, operation: (acc: R, UShort) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n }\n \n /\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R> UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n }\n \n /\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R> ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n }\n \n /\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R> UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n }\n \n /\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R> UShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n }\n \n /\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \* \n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R> UIntArray.foldRight(initial: R, operation: (UInt, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return

accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator
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    = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n
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\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator
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value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n
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\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
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\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
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\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator
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value.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator
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value.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator
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value.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
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\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
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\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the
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value.\n * \n * @param [operation] function that takes the
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value.\n * \n * @param [operation] function that takes the
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value.\n * \n * @param [operation] function that takes the
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index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator
value.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R> UShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {\n    var index =
lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Performs the given [action] on each
element.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.forEach(action: (UInt) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEach(action: (ULong) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEach(action: (UByte) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.forEach(action: (UShort) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element, providing sequential index
with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and
performs the action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that
takes the index of an element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(index++, item)\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("maxOrNull()")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.max(): UInt? {\n    return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("maxOrNull()")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.max(): ULong? {\n
return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("maxOrNull()")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.max(): UByte? {\n
return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("maxOrNull()")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.max(): UShort? {\n

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return maxOrNull()\n}\n\n@Deprecated(\\"Use maxByOrNull instead.\",
ReplaceWith(\\"maxByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince =
\\"1.4\\")\n@SinceKotlin(\\"1.3\\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {\n return
maxByOrNull(selector)\n}\n\n@Deprecated(\\"Use maxByOrNull instead.\",
ReplaceWith(\\"maxByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince =
\\"1.4\\")\n@SinceKotlin(\\"1.3\\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {\n return
maxByOrNull(selector)\n}\n\n@Deprecated(\\"Use maxByOrNull instead.\",
ReplaceWith(\\"maxByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince =
\\"1.4\\")\n@SinceKotlin(\\"1.3\\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {\n return
maxByOrNull(selector)\n}\n\n@Deprecated(\\"Use maxByOrNull instead.\",
ReplaceWith(\\"maxByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince =
\\"1.4\\")\n@SinceKotlin(\\"1.3\\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {\n return
maxByOrNull(selector)\n}\n\n**\n * Returns the first element yielding the largest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*\n@SinceKotlin(\\"1.4\\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.maxByOrNull(selector: (UInt) -> R): UInt? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n
* \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*\n@SinceKotlin(\\"1.4\\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.maxByOrNull(selector: (ULong) -> R): ULong? {\n if (isEmpty()) return null\n
var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n
* \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*\n@SinceKotlin(\\"1.4\\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.maxByOrNull(selector: (UByte) -> R):
UByte? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex
== 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n
val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return
maxElem\n}\n\n**\n * Returns the first element yielding the largest value of the given function or `null` if there are
no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*\n@SinceKotlin(\\"1.4\\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.maxByOrNull(selector: (UShort) -> R): UShort? {\n if (isEmpty()) return null\n
var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n
val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n
return maxElem\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin(\\"1.4\\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

```

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOf(selector: (UInt) -> Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue =
maxOf(maxValue, v)\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOf(selector: (ULong) -> Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue =
maxOf(maxValue, v)\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.maxOf(selector: (UByte) -> Double): Double {\n  if (isEmpty()) throw
NoSuchElementException()\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return maxValue\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOf(selector: (UShort) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var maxValue = selector(this[0])\n
for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOf(selector: (UInt) -> Float): Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue =
maxOf(maxValue, v)\n  }\n  return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOf(selector: (ULong) -> Float): Float {\n  if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue =
maxOf(maxValue, v)\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result
is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

ByteArray.maxOf(selector: (UByte) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var
    maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue =
        maxOf(maxValue, v)
    }
    return maxValue
}
/**
 * Returns the largest value among all values produced
 * by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector]
 * function is `NaN`, the returned result is `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun UShortArray.maxOf(selector: (UShort) -> Float): Float {
    if (isEmpty()) throw
    NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
        selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
/**
 * Returns the
 * largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R :
Comparable<R>> UIntArray.maxOf(selector: (UInt) -> R): R {
    if (isEmpty()) throw
    NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
        selector(this[i])
        if (maxValue < v) {
            maxValue
            = v
        }
    }
    return maxValue
}
/**
 * Returns the largest value among all values produced by
 * [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array
 * is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R :
Comparable<R>> ULongArray.maxOf(selector: (ULong) -> R): R {
    if (isEmpty()) throw
    NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
        selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}
/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the
 * array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R : Comparable<R>> ByteArray.maxOf(selector: (UByte) -> R): R {
    if (isEmpty()) throw
    NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
        selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}
/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the
 * array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R :
Comparable<R>> UShortArray.maxOf(selector: (UShort) -> R): R {
    if (isEmpty()) throw
    NoSuchElementException()
    var
    maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}
/**
 * Returns the largest value among all values
 * produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If
 * any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.maxOfOrNull(selector: (UInt) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue =
    selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
/**
 * Returns the largest value among all values produced by [selector]
 */

```

```

function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOfOrNull(selector: (ULong) -> Double): Double? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.maxOfOrNull(selector: (UByte) -> Double): Double? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOfOrNull(selector: (UShort) -> Double): Double? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n
for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOfOrNull(selector: (UInt) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n
}\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array or `null`
if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOfOrNull(selector: (ULong) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n
}\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.maxOfOrNull(selector: (UByte) -> Float): Float? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

UShortArray.maxOrNull(selector: (UShort) -> Float): Float? {\n  if (isEmpty()) return null\n  var maxV = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxV = maxOf(maxV, v)\n  }\n  return maxV\n}\n\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n\n *\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.maxOrNull(selector: (UInt) -> R): R? {\n  if (isEmpty()) return null\n  var maxV = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxV < v) {\n      maxV = v\n    }\n  }\n  return maxV\n}\n\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n\n *\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.maxOrNull(selector: (ULong) -> R): R? {\n  if (isEmpty()) return null\n  var maxV = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxV < v) {\n      maxV = v\n    }\n  }\n  return maxV\n}\n\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n\n *\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxOrNull(selector: (UByte) -> R): R? {\n  if (isEmpty()) return null\n  var maxV = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxV < v) {\n      maxV = v\n    }\n  }\n  return maxV\n}\n\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n\n *\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxOrNull(selector: (UShort) -> R): R? {\n  if (isEmpty()) return null\n  var maxV = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxV < v) {\n      maxV = v\n    }\n  }\n  return maxV\n}\n\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n\n *\n * @throws NoSuchElementException if the array is empty.\n\n *\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.maxOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var maxV = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (comparator.compare(maxV, v) < 0) {\n      maxV = v\n    }\n  }\n  return maxV\n}\n\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n\n *\n * @throws NoSuchElementException if the array is empty.\n\n *\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.maxOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var maxV = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (comparator.compare(maxV, v) < 0) {\n      maxV = v\n    }\n  }\n  return maxV\n}\n\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n\n *\n * @throws NoSuchElementException if the array is empty.\n\n *\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

```

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.maxOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n  if (isEmpty()) throw
NoSuchElementException()\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v
= selector(this[i])\n    if (comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.maxOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n  if (isEmpty()) throw
NoSuchElementException()\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n  }\n  return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if
there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n  if (isEmpty()) return
null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ULongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n  if
(isEmpty()) return null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n  }\n  return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n  if (isEmpty())
return null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function
applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.maxOrNull(): UInt? {\n  if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n
val e = this[i]\n  if (max < e) max = e\n  }\n  return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.maxOrNull(): ULong? {\n  if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex)

```





value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* @throws

NoSuchElementException

if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
```

```
UIntArray.minOf(selector: (UInt) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue =
```

```
minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced  
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]  
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
```

```
fun ULongArray.minOf(selector: (ULong) -> Double): Double {\n    if (isEmpty()) throw  
NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =  
selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest  
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of  
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
```

NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
```

```
UByteArray.minOf(selector: (UByte) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n
```

```
        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all  
values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by  
[selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is  
empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
```

```
UShortArray.minOf(selector: (UShort) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue =
```

```
minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced  
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced  
by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the  
array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
```

```
UIntArray.minOf(selector: (UInt) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var  
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue =
```

```
minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced  
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]  
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun ULongArray.minOf(selector: (ULong) -> Float): Float {\n    if (isEmpty()) throw  
NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =  
selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest  
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
```

values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 @throws NoSuchElementException if the array is empty.

```

*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UByteArray.minOf(selector: (UByte) -> Float): Float {n if (isEmpty()) throw NoSuchElementException()n var
minValue
= selector(this[0])n for (i in 1..lastIndex) {n val v = selector(this[i])n minValue = minOf(minValue,
v)n }n return minValue}n/n/**n * Returns the smallest value among all values produced by [selector]
functionn * applied to each element in the array.n * n * If any of values produced by [selector] function is `NaN`,
the returned result is `NaN`.n * n * @throws NoSuchElementException if the array is empty.n
*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UShortArray.minOf(selector: (UShort) -> Float): Float {n if (isEmpty()) throw NoSuchElementException()n
var minValue = selector(this[0])n for (i in 1..lastIndex) {n val v = selector(this[i])n minValue =
minOf(minValue, v)n }n return minValue}n/n/**n * Returns the smallest value among all values produced
by [selector] functionn * applied to each element in the array.n * n * @throws NoSuchElementException if the
array is empty.n
*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R :
Comparable<R>> UIntArray.minOf(selector: (UInt) -> R): R {n if (isEmpty()) throw
NoSuchElementException()n var minValue = selector(this[0])n for (i in 1..lastIndex) {n val v =
selector(this[i])n if (minValue > v) {n minValue = v\n }n }n return minValue}n/n/**n *
Returns the smallest value among all values produced by [selector] functionn * applied to each element in the
array.n * n * @throws NoSuchElementException if the array is empty.n
*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic
inline fun <R : Comparable<R>> ULongArray.minOf(selector: (ULong) -> R): R {n if (isEmpty()) throw
NoSuchElementException()n var minValue = selector(this[0])n for (i in 1..lastIndex) {n val v =
selector(this[i])n if (minValue > v) {n minValue = v\n }n }n return minValue}n/n/**n *
Returns the smallest value among all values produced by [selector] functionn * applied to each element in the
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NoSuchElementException()n var minValue = selector(this[0])n for (i in 1..lastIndex) {n val v =
selector(this[i])n if (minValue
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values produced by [selector] functionn * applied to each element in the array.n * n * @throws
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*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R :
Comparable<R>> UShortArray.minOf(selector: (UShort) -> R): R {n if (isEmpty()) throw
NoSuchElementException()n var minValue = selector(this[0])n for (i in 1..lastIndex) {n val v =
selector(this[i])n if (minValue > v) {n minValue = v\n }n }n return minValue}n/n/**n *
Returns the smallest value among all values produced by [selector] functionn * applied to each element in the array
or `null` if there are no elements.n * n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.n
*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution

```

```

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOfOrNull(selector: (UInt) -> Double): Double? {\n  if (isEmpty()) return null\n  var minValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.minOfOrNull(selector:
(ULong) -> Double): Double? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.minOfOrNull(selector: (UByte) -> Double): Double? {\n  if (isEmpty()) return null\n  var minValue
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOfOrNull(selector: (UShort) -> Double): Double? {\n  if (isEmpty()) return null\n  var minValue
= selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOfOrNull(selector: (UInt) -> Float): Float? {\n  if (isEmpty()) return null\n  var minValue =
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.minOfOrNull(selector: (ULong) -> Float): Float? {\n  if (isEmpty()) return null\n  var minValue =
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selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced

```

by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```

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inline fun <R : Comparable<R>> UIntArray.minOrNull(selector: (UInt) -> R): R? {\n  if (isEmpty()) return
null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(minValue > v) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.minOrNull(selector: (ULong) -> R): R? {\n  if (isEmpty()) return null\n  var
minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (minValue > v) {\n
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> UShortArray.minOrNull(selector: (UShort) -> R): R? {\n  if (isEmpty())
return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(minValue > v) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value
according to the provided [comparator]\n * among all values produced by [selector] function applied to each
element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.minOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n  if (isEmpty()) throw
NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex)\n  {\n    val v = selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among
all values produced by [selector] function applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.minOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n  if (isEmpty()) throw
NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return

```



```

*^@SinceKotlin("1.4")@ExperimentalUnsignedTypes\npublic fun UIntArray.minOrNull(): UInt? {\n  if
(isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (min > e) min =
e\n  }\n  return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*^@SinceKotlin("1.4")@ExperimentalUnsignedTypes\npublic
fun UIntArray.minOrNull(): UInt? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in
1..lastIndex) {\n    val e = this[i]\n    if (min > e) min = e\n  }\n  return min\n}\n\n/**\n * Returns the smallest
element or `null` if there are no elements.\n
*^@SinceKotlin("1.4")@ExperimentalUnsignedTypes\npublic fun
UByteArray.minOrNull(): UByte? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
  val e = this[i]\n    if (min > e) min = e\n  }\n  return min\n}\n\n/**\n * Returns the smallest element or `null`
if there are no elements.\n
*^@SinceKotlin("1.4")@ExperimentalUnsignedTypes\npublic fun
UShortArray.minOrNull(): UShort? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex)
{\n    val e = this[i]\n    if (min > e) min = e\n  }\n  return min\n}\n\n@Deprecated("Use minWithOrNull
instead."),
ReplaceWith("minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince =
"1.4")@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UIntArray.minWith(comparator:
Comparator<in UInt>): UInt? {\n  return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull
instead.", ReplaceWith("minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince =
"1.4")@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun ULongArray.minWith(comparator:
Comparator<in ULong>): ULong? {\n  return minWithOrNull(comparator)\n}\n\n@Deprecated("Use
minWithOrNull instead."),
ReplaceWith("minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince =
"1.4")@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UByteArray.minWith(comparator:
Comparator<in UByte>): UByte? {\n  return minWithOrNull(comparator)\n}\n\n@Deprecated("Use
minWithOrNull instead."),
ReplaceWith("minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince =
"1.4")@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic
fun UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {\n  return
minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the
provided [comparator] or `null` if there are no elements.\n
*^@SinceKotlin("1.4")@ExperimentalUnsignedTypes\npublic fun UIntArray.minWithOrNull(comparator:
Comparator<in UInt>): UInt? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
  val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*^@SinceKotlin("1.4")@ExperimentalUnsignedTypes\npublic fun ULongArray.minWithOrNull(comparator:
Comparator<in ULong>): ULong? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
  val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the
first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*^@SinceKotlin("1.4")@ExperimentalUnsignedTypes\npublic fun UByteArray.minWithOrNull(comparator:
Comparator<in UByte>): UByte? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
  val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the
first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*^@SinceKotlin("1.4")@ExperimentalUnsignedTypes\npublic fun UShortArray.minWithOrNull(comparator:
Comparator<in UShort>): UShort? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
  val e = this[i]\n    if (comparator.compare(min, e) >
0) min = e\n  }\n  return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *

```

```

@sample samples.collections.Collections.Aggregates.none\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n
* @sample samples.collections.Collections.Aggregates.none\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n
* @sample samples.collections.Collections.Aggregates.none\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match
the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(predicate: (UInt) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(predicate: (ULong) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n
* \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(predicate: (UByte) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(predicate: (UShort) -> Boolean): Boolean {\n    for (element in this) if (predicate(element))
return false\n    return true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.onEach(action: (UInt) -> Unit): UIntArray {\n    return apply
{ for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the
array itself afterwards.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.onEach(action: (ULong) -> Unit): ULongArray {\n    return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.onEach(action: (UByte) -> Unit): UByteArray {\n    return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.onEach(action: (UShort) -> Unit): UShortArray {\n    return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and
returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element
itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.onEachIndexed(action: (index: Int, UInt) -> Unit): UIntArray {\n    return apply {
forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.onEachIndexed(action: (index: Int, ULong) -> Unit): ULongArray {\n    return apply {

```





```

UIntArray.reduceIndexedOrNull(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt? {\n  if (isEmpty())\n  return null\n  var accumulator = this[0]\n  for (index
in 1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceIndexedOrNull(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong? {\n  if
(isEmpty())\n    return null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator =
operation(index, accumulator, this[index])\n  }\n  return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is
empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the
element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceIndexedOrNull(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte? {\n  if
(isEmpty())\n    return null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator =
operation(index, accumulator, this[index])\n  }\n  return accumulator}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element
with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value
and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceIndexedOrNull(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort? {\n  if
(isEmpty())\n    return null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator =
operation(index, accumulator, this[index])\n  }\n  return accumulator}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each
element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt?
{\n  if (isEmpty())\n    return null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n
accumulator = operation(accumulator, this[index])\n  }\n  return accumulator}\n\n/**\n * Accumulates value
starting with the first element and applying [operation] from left to right\n * to current accumulator value and each
element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceOrNull(operation: (acc: ULong, ULong) ->
ULong): ULong? {\n  if (isEmpty())\n    return null\n  var accumulator = this[0]\n  for (index in 1..lastIndex)
{\n    accumulator = operation(accumulator, this[index])\n  }\n  return accumulator}\n\n/**\n * Accumulates
value starting with the first element and applying [operation] from left to right\n * to current accumulator value and
each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current

```

```

accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.reduceOrNull(operation: (acc: UByte, UByte) -> UByte): UByte? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and
an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceOrNull(operation: (acc: UShort, UShort) ->
UShort): UShort? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is
empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null`
when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {\n var index = lastIndex\n if (index < 0)
throw UnsupportedOperationException("Empty array can't be reduced.")\n
var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--),
accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and
applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {\n var index = lastIndex\n if
(index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n
var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--),
accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and
applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {\n var index = lastIndex\n if (index
< 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n
var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--),
accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and
applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull]

```

instead. It returns `null` when its receiver is empty.

```

\n * \n * @param [operation] function that takes an element and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {\n    var index = lastIndex\n    if
(index < 0) throw UnsupportedOperationException("Empty array can't be
reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--),
accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and
applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected
way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt {\n    var index
= lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var
accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong {\n
var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n
var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte {\n    var index =
lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var
accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, the element
itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

UShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/** Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current
 * accumulator value,
 * and calculates the next accumulator value.
 * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull

*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.reduceRightIndexedOrNull(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/** Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current
 * accumulator value,
 * and calculates the next accumulator value.
 * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull

*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.reduceRightIndexedOrNull(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/** Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current
 * accumulator value,
 * and calculates the next accumulator value.
 * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull

*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.reduceRightIndexedOrNull(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/** Accumulates value starting with the last element and applying [operation] from right to
 * left
 * to each element with its index in the original array and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and
 * current accumulator value,
 * and calculates the next accumulator value.
 * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull

*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.reduceRightIndexedOrNull(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/** Accumulates value starting with the last element and applying [operation] from right to
 * left
 * to each element and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes an element and current accumulator value,
 * and calculates the next accumulator value.
 * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull

*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.reduceRightOrNull(operation: (UInt, acc: UInt) -> UInt): UInt? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Returns `null` if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value. @sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)n@ExperimentalUnsignedTypesn
@kotlin.internal.InlineOnlynpublic inline fun ULongArray.reduceRightOrNull(operation: (ULong, acc: ULong) ->
ULong): ULong? {n var index = lastIndexn if (index < 0) return nulln var accumulator = get(index--)\n
while (index >= 0) {n
    accumulator = operation(get(index--), accumulator)\n }n return accumulator\n}\n/n/**n * Accumulates value
starting with the last element and applying [operation] from right to left to each element and current accumulator
value. Returns `null` if the array is empty. @param [operation] function that takes an element and
current accumulator value, and calculates the next accumulator value. @sample
samples.collections.Collections.Aggregates.reduceRightOrNull
*/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)n@ExperimentalUnsignedTypesn
@kotlin.internal.InlineOnlynpublic inline fun UByteArray.reduceRightOrNull(operation: (UByte, acc: UByte) ->
UByte): UByte? {n var index = lastIndexn if (index < 0) return nulln var accumulator = get(index--)\n
while (index >= 0) {n
    accumulator = operation(get(index--), accumulator)\n }n return
accumulator\n}\n/n/**n * Accumulates value starting with the last
element and applying [operation] from right to left to each element and current accumulator value. Returns `null` if the array is empty. @param [operation] function that takes an element and current
accumulator value, and calculates the next accumulator value. @sample
samples.collections.Collections.Aggregates.reduceRightOrNull
*/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)n@ExperimentalUnsignedTypesn
@kotlin.internal.InlineOnlynpublic inline fun UShortArray.reduceRightOrNull(operation: (UShort, acc: UShort) ->
UShort): UShort? {n var index = lastIndexn if (index < 0) return nulln var accumulator = get(index--)\n
while (index >= 0) {n
    accumulator = operation(get(index--), accumulator)\n }n return
accumulator\n}\n/n/**n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right to each element and current accumulator value that starts
with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value. @sample
samples.collections.Collections.Aggregates.runningFold
*/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R>
UIntArray.runningFold(initial: R, operation: (acc: R, UInt) -> R): List<R> {n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }n var accumulator = initial\n for
(element in this) {n
    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n }n
return result\n}\n/n/**n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right to each element and current
accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should
not be mutated; otherwise it would affect the previous value in resulting list. @param [operation]
function that takes current accumulator value and an element, and calculates the next accumulator value. @sample
@sample samples.collections.Collections.Aggregates.runningFold
*/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R>
ULongArray.runningFold(initial: R, operation: (acc: R, ULong) -> R): List<R> {n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }n var accumulator = initial\n for
(element in this) {n
    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n }n
return result\n}\n/n/**n * Returns a list containing successive accumulation values generated by applying
[operation] from left to

```

right to each element and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. @sample samples.collections.Collections.Aggregates.runningFold

```

*\/n@SinceKotlin("1.4")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun <R>
UByteArray.runningFold(initial: R, operation: (acc: R, UByte) -> R): List<R> {\/n if (isEmpty()) return
listOf(initial)\/n val result = ArrayList<R>(size + 1).apply { add(initial) }\/n var accumulator = initial\/n for
(element in this) {\/n accumulator = operation(accumulator, element)\/n result.add(accumulator)\/n }\/n
return result\/n}\/n\/n**\/n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right to each element and current accumulator value that starts with [initial]
value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would
affect the previous value in resulting list. @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value. @sample
samples.collections.Collections.Aggregates.runningFold
*\/n@SinceKotlin("1.4")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun <R>
UShortArray.runningFold(initial: R, operation: (acc: R, UShort) -> R): List<R> {\/n if (isEmpty()) return
listOf(initial)\/n val result = ArrayList<R>(size + 1).apply { add(initial) }\/n var accumulator = initial\/n for
(element in this) {\/n accumulator = operation(accumulator, element)\/n result.add(accumulator)\/n }\/n
return result\/n}\/n\/n**\/n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right to each element, its index in the
original array and current accumulator value that starts with [initial] value. Note that `acc` value passed to
[operation] function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes the index of an element, current accumulator value and the element
itself, and calculates the next accumulator value. @sample
samples.collections.Collections.Aggregates.runningFold
*\/n@SinceKotlin("1.4")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun <R>
UIntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\/n if (isEmpty())
return listOf(initial)\/n val result = ArrayList<R>(size + 1).apply { add(initial) }\/n var accumulator = initial\/n
for (index in indices) {\/n accumulator = operation(index,
accumulator, this[index])\/n result.add(accumulator)\/n }\/n return result\/n}\/n\/n**\/n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right to each element,
its index in the original array and current accumulator value that starts with [initial] value. Note that `acc`
value passed to [operation] function should not be mutated; otherwise it would affect the previous value in
resulting list. @param [operation] function that takes the index of an element, current accumulator value and
the element itself, and calculates the next accumulator value. @sample
samples.collections.Collections.Aggregates.runningFold
*\/n@SinceKotlin("1.4")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun <R>
ULongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\/n if
(isEmpty()) return listOf(initial)\/n val result = ArrayList<R>(size
+ 1).apply { add(initial) }\/n var accumulator = initial\/n for (index in indices) {\/n accumulator =
operation(index, accumulator, this[index])\/n result.add(accumulator)\/n }\/n return result\/n}\/n\/n**\/n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right to
each element, its index in the original array and current accumulator value that starts with [initial] value.
Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
previous value in resulting list. @param [operation] function that takes the index of an element, current
accumulator value and the element itself, and calculates the next accumulator value. @sample
samples.collections.Collections.Aggregates.runningFold
*\/n@SinceKotlin("1.4")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun <R>

```

UByteArray.runningFoldIndexed(initial:

R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }}\n return result}\n\n\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n

\*\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R> UShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }}\n return result}\n\n\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n

\* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n

\*\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun UIntArray.runningReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UInt>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result}\n\n\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and

an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n

\*\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun ULongArray.runningReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<ULong>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result}\n\n\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param

[operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n

\*\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun UByteArray.runningReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UByte>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result}\n\n\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would

affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n \* \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun UShortArray.runningReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UShort>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n \* \n \*

Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n \* \n

\* \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun UIntArray.runningReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UInt>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to

right\n \* to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n \* \n

\* \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun ULongArray.runningReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<ULong>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n \* \n

\* \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun UByteArray.runningReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UByte>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n \* \n

\* \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun UByteArray.runningReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UByte>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n \* \n

\* \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun

```

UShortArray.runningReduceIndexed(operation: (index:
Int, acc: UShort, UShort) -> UShort): List<UShort> {
    if (isEmpty()) return emptyList()
    var accumulator =
this[0]
    val result = ArrayList<UShort>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return
result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from
left to right
 * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc`
value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in
resulting list.
 * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R): List<R> {
    return runningFold(initial,
operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation]
from left to right
 * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc`
value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in
resulting list.
 * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R> ULongArray.scan(initial: R, operation: (acc: R, ULong) -> R):
List<R> {
    return runningFold(initial,
operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation]
from left to right
 * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc`
value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in
resulting list.
 * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R):
List<R> {
    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation
values generated by applying [operation] from left to right
 * to each element and current
accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should
not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation]
function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R> UShortArray.scan(initial: R, operation: (acc: R, UShort) -> R):
List<R> {
    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation
values generated by applying [operation] from left to right
 * to each element, its index in the original array and
current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function
should not be mutated;
 *
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the
index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator
value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R,
UInt) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * Returns a list containing
successive accumulation values generated by applying [operation] from left to right
 * to each element, its index in
the original array and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed
to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.

```

\* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n@Deprecated("Use runningReduce instead.", ReplaceWith("runningReduce(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.scanReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {\n    return runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.", ReplaceWith("runningReduce(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.scanReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {\n    return runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.", ReplaceWith("runningReduce(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.scanReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {\n    return runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.", ReplaceWith("runningReduce(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.scanReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> {\n    return runningReduce(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.", ReplaceWith("runningReduceIndexed(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.scanReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {\n    return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.", ReplaceWith("runningReduceIndexed(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.scanReduceIndexed(operation: (index: Int, acc: ULong,

```

```

ULong) -> ULong): List<ULong> {
    return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use
runningReduceIndexed instead.", ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR)\n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\n\npublic inline fun UByteArray.scanReduceIndexed(operation: (index: Int, acc: UByte,
UByte) -> UByte): List<UByte>
    {\n    return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.",
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR)\n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\n\npublic inline fun UShortArray.scanReduceIndexed(operation: (index: Int, acc: UShort,
UShort) -> UShort): List<UShort> {
    return runningReduceIndexed(operation)\n}\n\n/**
    * Returns the sum of
    all values produced by [selector] function applied to each element in the array.\n
    *\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
    UIntArray.sumBy(selector: (UInt) -> UInt): UInt {
        var sum: UInt = 0u\n        for (element in this) {\n            sum +=
        selector(element)\n        }\n        return sum\n    }\n\n/**
    * Returns the sum of all values produced by [selector] function
    applied to each element in the array.\n
    *\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic
    inline fun
    ULongArray.sumBy(selector: (ULong) -> UInt): UInt {
        var sum: UInt = 0u\n        for (element in this)
        {\n            sum += selector(element)\n        }\n        return sum\n    }\n\n/**
    * Returns the sum of all values produced by
    [selector] function applied to each element in the array.\n
    *\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
    UByteArray.sumBy(selector: (UByte) -> UInt): UInt {
        var sum: UInt = 0u\n        for (element in this) {\n            sum
        += selector(element)\n        }\n        return sum\n    }\n\n/**
    * Returns the sum of all values produced by [selector]
    function applied to each element in the array.\n
    *\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
    UShortArray.sumBy(selector: (UShort) -> UInt): UInt {
        var sum: UInt = 0u\n        for (element in this) {\n
        sum += selector(element)\n        }\n        return sum\n    }\n\n/**
    * Returns the
    sum of all values produced by [selector] function applied to each element in the array.\n
    *\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
    UIntArray.sumByDouble(selector: (UInt) -> Double): Double {
        var sum: Double = 0.0\n        for (element in this)
        {\n            sum += selector(element)\n        }\n        return sum\n    }\n\n/**
    * Returns the sum of all values produced by
    [selector] function applied to each element in the array.\n
    *\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
    ULongArray.sumByDouble(selector: (ULong) -> Double): Double {
        var sum: Double = 0.0\n        for (element in
        this) {\n            sum += selector(element)\n        }\n        return sum\n    }\n\n/**
    * Returns the sum of all values produced by
    [selector] function applied to each element in the array.\n
    *\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
    UByteArray.sumByDouble(selector:
    (UByte) -> Double): Double {
        var sum: Double = 0.0\n        for (element in this) {\n            sum +=
        selector(element)\n        }\n        return sum\n    }\n\n/**
    * Returns the sum of all values produced by [selector] function
    applied to each element in the array.\n
    *\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
    UShortArray.sumByDouble(selector: (UShort) -> Double): Double {
        var sum: Double = 0.0\n        for (element in
        this) {\n            sum += selector(element)\n        }\n        return sum\n    }\n\n/**
    * Returns the sum of all values produced by
    [selector] function applied to each element in the array.\n
    *\n\n@SinceKotlin("1.4")\n\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\n@OverloadResolution
    ByLambdaReturnType\n\n@Suppress("INAPPLICABLE_JVM_NAME")\n\n@kotlin.jvm.JvmName("sumOfDouble")\n\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
    UIntArray.sumOf(selector:
    (UInt) -> Double): Double {

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var sum: Double = 0.toDouble()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt)

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-> Long): Long {\n  var sum: Long = 0.toLong()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n  inline fun ULongArray.sumOf(selector: (ULong) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n      sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n  inline fun UByteArray.sumOf(selector: (UByte) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n      sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n  inline fun UShortArray.sumOf(selector: (UShort) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n      sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n  inline fun UIntArray.sumOf(selector: (UInt) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n      sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n  inline fun ULongArray.sumOf(selector: (ULong) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n      sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n  inline fun UByteArray.sumOf(selector: (UByte) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n      sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n  inline fun UShortArray.sumOf(selector: (UShort) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n      sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")

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")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector:
(UInt)
-> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong\
")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector:
(ULong) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong\
")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.sumOf(selector: (UByte) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong\
")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector:
(UShort) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and
the [other] array with the same index.\n * The returned list has length
of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Array<out
R>): List<Pair<UInt, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Array<out R>): List<Pair<ULong, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
infix fun <R> UByteArray.zip(other: Array<out R>): List<Pair<UByte, R>> {\n    return zip(other) { t1, t2 -> t1 to
t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:
Array<out R>): List<Pair<UShort, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R, V> UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<V> {\n    val size =
minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i],
other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the
[other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n *
The returned list has length of the shortest collection.\n * \n * @sample

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samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n}
return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with
the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list
has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with
the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other:
Iterable<R>): List<Pair<UInt, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n
* The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Iterable<R>): List<Pair<ULong, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n
* The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other:
Iterable<R>): List<Pair<UByte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n
* The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:
Iterable<R>): List<Pair<UShort, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] collection with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n
* \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n
if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns
a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>

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ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n  val arraySize = size\n  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n */\n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>\nUByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {\n  val arraySize = size\n  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n */\n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\ninline fun <R, V> UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n  val arraySize = size\n  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n */\n * @sample\n samples.collections.Iterables.Operations.zipIterable\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray): List<Pair<UInt, UInt>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n */\n * @sample\n samples.collections.Iterables.Operations.zipIterable\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray): List<Pair<ULong, ULong>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n */\n * @sample\n samples.collections.Iterables.Operations.zipIterable\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray): List<Pair<UByte, UByte>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n */\n * @sample\n samples.collections.Iterables.Operations.zipIterable\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic\ninfix fun UShortArray.zip(other: UShortArray): List<Pair<UShort, UShort>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n */\n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>\nUIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n */\n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>\nULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {\n  val size = minOf(size,

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other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array\n * with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned\n * list has length of the shortest array.\n * \n * @sample\n * samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>\n    UByteArray.zip(other:\n        UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list =\n        ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return\n        list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same\n * index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length\n * of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>\n    UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> V): List<V> {\n    val size = minOf(size,\n        other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns the sum of all elements in the\n * array.\n */\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\n    Array<out UInt>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\n    Array<out ULong>.sum(): ULong {\n    var sum: ULong = 0uL\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\n    Array<out UByte>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic\n    fun Array<out UShort>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UIntArray.sum(): UInt {\n    return storage.sum().toUInt()\n}\n\n/**\n * Returns the sum of all elements in the\n * array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    ULongArray.sum(): ULong {\n    return storage.sum().toULong()\n}\n\n/**\n * Returns the sum of all elements in\n * the array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline\n    fun UByteArray.sum(): UInt {\n    return sumBy { it.toUInt() }\n}\n\n/**\n * Returns the sum of all elements in the\n * array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UShortArray.sum(): UInt {\n\n        return sumBy { it.toUInt() }\n}\n\n/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming\n * Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n * license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UCollectionsKt")\n\npackage\n    kotlin.collections\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:\n// https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport\n    kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an array of UByte containing all of the\n * elements of this collection.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\n    Collection<UByte>.toUByteArray(): UByteArray {\n    val result = UByteArray(size)\n    var index = 0\n    for\n        (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of UInt containing\n * all

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of the elements of this collection.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<UInt>.toUIntArray(): UIntArray {\n    val result = UIntArray(size)\n    var index = 0\n    for (element in
this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of ULong containing all of the
elements of this collection.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<ULong>.toULongArray(): ULongArray {\n    val result = ULongArray(size)\n    var index = 0\n    for
(element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of UShort
containing all of the elements of this collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Collection<UShort>.toUShortArray():
UShortArray {\n    val result = UShortArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] =
element\n    return result\n}\n\n/**\n * Returns the sum of
all elements in the collection.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Iterable<UInt>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Iterable<ULong>.sum(): ULong {\n    var sum: ULong = 0uL\n    for (element in this) {\n        sum += element\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Iterable<UByte>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun Iterable<UShort>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return
sum\n}\n\n"/\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
*\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UComparisonsKt")\n\npackage
kotlin.comparisons\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns the
greater of two values.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UInt, b:
UInt): UInt {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: ULong, b:
ULong): ULong {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UByte, b: UByte): UByte {\n    return
if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UShort, b: UShort): UShort {\n    return
if (a >= b) a else b\n}\n\n/**\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
maxOf(a: UInt, b: UInt, c: UInt): UInt {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three
values.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun maxOf(a: ULong, b: ULong, c: ULong): ULong {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the
greater of three values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns
the greater of three values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
maxOf(a: UShort, b: UShort, c: UShort): UShort {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the
greater of the given values.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a:
UInt, vararg other: UInt): UInt {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return
max\n}\n\n/**\n * Returns the greater of the given values.\n

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*^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^public fun maxOf(a: ULong, vararg other: ULong):
ULong {^n var max = a^n for (e in other) max = maxOf(max, e)^n return max^n}^n/^**^n * Returns the greater
of the given values.^n *^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^public fun maxOf(a: UByte,
vararg other: UByte):
UByte {^n var max = a^n for (e in other) max = maxOf(max, e)^n return max^n}^n/^**^n * Returns the greater
of the given values.^n *^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^public fun maxOf(a: UShort,
vararg other: UShort): UShort {^n var max = a^n for (e in other) max = maxOf(max, e)^n return
max^n}^n/^**^n * Returns the smaller of two values.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun minOf(a: UInt, b: UInt): UInt {^n return if
(a <= b) a else b^n}^n/^**^n * Returns the smaller of two values.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun minOf(a: ULong, b: ULong): ULong {^n
return if (a <= b) a else b^n}^n/^**^n * Returns the smaller of two values.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun minOf(a: UByte, b: UByte): UByte {^n
return if (a <= b) a else b^n}^n/^**^n * Returns the smaller of two values.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
minOf(a: UShort, b: UShort): UShort {^n return if (a <= b) a else b^n}^n/^**^n * Returns the smaller of three
values.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline
fun minOf(a: UInt, b: UInt, c: UInt): UInt {^n return minOf(a, minOf(b, c))^n}^n/^**^n * Returns the smaller of
three values.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public
inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {^n return minOf(a, minOf(b, c))^n}^n/^**^n * Returns
the smaller of three values.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
minOf(a: UByte, b: UByte, c: UByte): UByte {^n return minOf(a, minOf(b, c))^n}^n/^**^n * Returns the smaller
of three values.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public
inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {^n return minOf(a, minOf(b,
c))^n}^n/^**^n * Returns the smaller of the given values.^n
*^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^public fun minOf(a: UInt, vararg other: UInt): UInt {^n
var min = a^n for (e in other) min = minOf(min, e)^n return min^n}^n/^**^n * Returns the smaller of the given
values.^n *^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^public fun minOf(a: ULong, vararg other:
ULong): ULong {^n var min = a^n for (e in other) min = minOf(min, e)^n return min^n}^n/^**^n * Returns the
smaller of the given values.^n *^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^public fun minOf(a:
UByte, vararg other: UByte): UByte {^n var min = a^n for (e in other) min = minOf(min, e)^n return
min^n}^n/^**^n * Returns the smaller of the given values.^n
*^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^public fun minOf(a: UShort, vararg other: UShort):
UShort {^n var min = a^n for (e in other) min = minOf(min, e)^n return min^n}^n/^**^n
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is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.^n
*^@file:kotlin.jvm.JvmMultifileClass^@file:kotlin.jvm.JvmName("URangesKt")^n^package
kotlin.ranges^n^// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt^// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib^//^nimport kotlin.random.*^n/^**^n * Returns a
random element from this range.^n * ^n * @throws IllegalArgumentException if this range is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntRange.random(): UInt {^n return random(Random)^n}^n/^**^n * Returns a random element from this range.^n
* ^n * @throws IllegalArgumentException if this range is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ULongRange.random():
ULong {^n return random(Random)^n}^n/^**^n * Returns a random element from this range using the specified
source of randomness.^n * ^n * @throws IllegalArgumentException if this range is empty.^n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntRange.random(random: Random): UInt
{\n try {\n return random.nextUInt(this)\n } catch(e: IllegalArgumentException) {\n throw
NoSuchElementException(e.message)\n }}\n\n/**\n * Returns a random element from this range using the
specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongRange.random(random: Random):
ULong {\n try {\n return random.nextULong(this)\n } catch(e: IllegalArgumentException) {\n throw
NoSuchElementException(e.message)\n }}\n\n/**\n * Returns a random element from this range, or `null` if this
range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic
inline fun UIntRange.randomOrNull(): UInt? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this range, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULongRange.randomOrNull(): ULong? {\n return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of
randomness, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\np
ublic fun UIntRange.randomOrNull(random: Random): UInt? {\n if (isEmpty())\n return null\n return
random.nextUInt(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of
randomness, or `null` if this range
is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\np
ublic fun ULongRange.randomOrNull(random: Random): ULong? {\n if (isEmpty())\n return null\n return
random.nextULong(this)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always
returns `false` if the [element] is `null`.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntRange.contains(element: UInt?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n *
Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is
`null`.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
operator fun ULongRange.contains(element: ULong?): Boolean {\n return element != null &&
contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs
to this range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun
UIntRange.contains(value: UByte): Boolean {\n return contains(value.toUInt())\n}\n\n/**\n * Checks if the
specified [value] belongs to this range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
operator fun ULongRange.contains(value: UByte): Boolean {\n return contains(value.toULong())\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value:
UInt): Boolean {\n return contains(value.toULong())\n}\n\n/**\n * Checks if the specified [value] belongs to this
range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun
UIntRange.contains(value: ULong): Boolean {\n return (value shr UInt.SIZE_BITS) == 0uL &&
contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
operator fun UIntRange.contains(value: UShort): Boolean {\n return contains(value.toUInt())\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value:
UShort): Boolean {\n return contains(value.toULong())\n}\n\n/**\n * Returns a progression from this value down
to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this`
value.\n * \n * If the [to] value is greater than `this` value the returned progression is empty.\n

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*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix fun UByte.downTo(to: UByte):
UIntProgression {\n    return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}\n\n/**\n * Returns
a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less
than or equal to `this` value.\n * If the [to] value
is greater than `this` value the returned progression is empty.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix fun UInt.downTo(to: UInt):
UIntProgression {\n    return UIntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression
from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal
to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix fun ULong.downTo(to: ULong):
ULongProgression {\n    return ULongProgression.fromClosedRange(this, to, -1L)\n}\n\n/**\n * Returns a
progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less
than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix
fun UShort.downTo(to: UShort): UIntProgression {\n    return UIntProgression.fromClosedRange(this.toUInt(),
to.toUInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the
same step.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UIntProgression.reversed():
UIntProgression {\n    return UIntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a
progression that goes over the same range in the opposite direction with the same step.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun ULongProgression.reversed():
ULongProgression {\n    return ULongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a
progression that goes over the same range with the given step.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix fun UIntProgression.step(step: Int):
UIntProgression {\n    checkStepIsPositive(step > 0, step)\n    return UIntProgression.fromClosedRange(first,
last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the
given step.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix fun
ULongProgression.step(step: Long): ULongProgression {\n    checkStepIsPositive(step > 0, step)\n    return
ULongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a range from
this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value,
then the returned range is empty.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix fun
UByte.until(to: UByte): UIntRange {\n    if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n    return
this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix fun UInt.until(to: UInt): UIntRange {\n
if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY\n    return this .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a
range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to
`this` value, then the returned range is empty.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic
infix fun ULong.until(to: ULong): ULongRange {\n    if (to <= ULong.MIN_VALUE) return
ULongRange.EMPTY\n    return this .. (to - 1u).toULong()\n}\n\n/**\n * Returns a range from this value up to but
excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned
range is empty.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix fun UShort.until(to:
UShort): UIntRange {\n    if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY\n    return this.toUInt() .. (to -
1u).toUInt()\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return
this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UInt.coerceAtLeast(minimumValue: UInt):
UInt {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less
than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue]

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or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceAtLeast(minimumValue:
ULong): ULong {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this
value is not less than the specified [minimumValue].\n * \n
* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n *
@sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceAtLeast(minimumValue:
UByte): UByte {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value
is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the
[minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceAtLeast(minimumValue:
UShort): UShort {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this
value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n
* \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceAtMost(maximumValue: UInt):
UInt {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceAtMost(maximumValue:
ULong): ULong {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this
value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UByte.coerceAtMost(maximumValue: UByte): UByte {\n    return if (this > maximumValue) maximumValue
else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return
this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceAtMost(maximumValue:
UShort): UShort {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this
value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range,
or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {\n    if (minimumValue > maximumValue)
throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceIn(minimumValue: ULong,
maximumValue: ULong): ULong {\n    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than

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minimum $minimumValue.}")\n
    if (this < minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return
this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n *
@return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceIn(minimumValue: UByte,
maximumValue: UByte): UByte {\n    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.>")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this
value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this
value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceIn(minimumValue: UShort,
maximumValue: UShort): UShort {\n    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.>")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UInt.coerceIn(range: ClosedRange<UInt>): UInt {\n    if (range is ClosedFloatingPointRange) {\n        return
this.coerceIn<UInt>(range)\n    }\n    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to
an empty range: $range.")\n    return when {\n        this < range.start -> range.start\n        this > range.endInclusive -
-> range.endInclusive\n        else -> this\n    }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or
`range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceIn(range:
ClosedRange<ULong>): ULong {\n    if (range is ClosedFloatingPointRange) {\n        return
this.coerceIn<ULong>(range)\n    }\n    if (range.isEmpty())
throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")\n    return when {\n        this
< range.start -> range.start\n        this > range.endInclusive -> range.endInclusive\n        else -> this\n    }\n}\n\n"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("USequencesKt")\n\npackage
kotlin.sequences\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns the
sum of all elements in the sequence.\n * \n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Sequence<UInt>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements
in the sequence.\n * \n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Sequence<ULong>.sum(): ULong {\n    var sum: ULong = 0uL\n    for (element in this) {\n        sum += element\n

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constructor(cause: Throwable?) : super(cause)\n}\n\n/**\n * Returns the detailed description of this throwable
with its stack trace.\n *\n * The detailed description includes:\n * - the short description (see [Throwable.toString])
of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of the exceptions that were
[suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed description of each
throwable in the [Throwable.cause] chain.\n *\n@SinceKotlin("1.4")\npublic expect fun
Throwable.stackTraceToString(): String\n\n/**\n * Prints the [detailed description][Throwable.stackTraceToString]
of this throwable to the standard output or standard error output.\n
*\n@SinceKotlin("1.4")\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\npublic
expect fun Throwable.printStackTrace(): Unit\n\n/**\n * When supported by the platform, adds the specified
exception to the list of exceptions that were\n * suppressed in order to deliver this exception.\n
*\n@SinceKotlin("1.4")\npublic expect fun Throwable.addSuppressed(exception: Throwable)\n\n/**\n * Returns
a list of all exceptions that were suppressed in order to deliver this exception.\n *\n * The list can be empty:\n * - if
no exceptions were suppressed;\n * - if the platform doesn't support suppressed exceptions;\n * - if this [Throwable]
instance has disabled the suppression.\n *\n@SinceKotlin("1.4")\npublic expect val
Throwable.suppressedExceptions: List<Throwable>,"/>\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\npackage kotlin.js\nimport
kotlin.annotation.AnnotationTarget.*\n\n/**\n
* Gives a declaration (a function, a property or a class) specific name in JavaScript.\n *\n@Target(CLASS,
FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY_GETTER,
PROPERTY_SETTER)\n@OptionalExpectation\npublic expect annotation class JsName(val name: String)\n\n/**\n
* Marks experimental JS export annotations.\n *\n * Note that behavior of these annotations will likely be changed
in the future.\n *\n * Usages of such annotations will be reported as warnings unless an explicit opt-in with\n * the
[OptIn] annotation, e.g. `@OptIn(ExperimentalJsExport::class)`,\n * or with the `-Xopt-
in=kotlin.js.ExperimentalJsExport` compiler option is given.\n
*\n@Suppress("DEPRECATION")\n@Experimental(level =
Experimental.Level.WARNING)\n@RequiresOptIn(level =
RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Since
Kotlin("1.4")\npublic annotation class ExperimentalJsExport\n\n/**\n * Exports top-level declaration on JS
platform.\n *\n
* Compiled module exposes declarations that are marked with this annotation without name mangling.\n *\n * This
annotation can be applied to either files or top-level declarations.\n *\n * It is currently prohibited to export the
following kinds of declarations:\n *\n * * `expect` declarations\n * * inline functions with reified type
parameters\n * * suspend functions\n * * secondary constructors without `@JsName`\n * * extension
properties\n * * enum classes\n * * annotation classes\n *\n * Signatures of exported declarations must only
contain "exportable" types:\n *\n * * `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`,
`Double`\n * * `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n * *
`Array<exportable-type>`\n * * Function types with exportable parameters and return types\n * * `external` or
`@JsExport` classes and interfaces\n * * Nullable counterparts of types above\n * * Unit return type.
Must not be nullable\n *\n * This annotation is experimental, meaning that restrictions mentioned above are subject
to change.\n *\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS,
PROPERTY, FUNCTION, FILE)\n@SinceKotlin("1.4")\n@OptionalExpectation\npublic expect annotation class
JsExport(),"/>\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.collections\nimport kotlin.internal.PlatformDependent\n\n/**\n
* Classes that inherit from
this interface can be represented as a sequence of elements that can\n * be iterated over.\n *\n * @param T the type of
element being iterated over. The iterator is covariant in its element type.\n *\n@public interface Iterable<out T> {\n
/>\n * Returns an iterator over the elements of this object.\n *\n * @public operator fun iterator():

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Iterator<T>\n}\n\n/**\n * Classes that inherit from this interface can be represented as a sequence of elements that
can\n * be iterated over and that supports removing elements during iteration.\n * @param T the type of element
being iterated over. The mutable iterator is invariant in its element type.\n * ^\npublic interface MutableIterable<out
T> : Iterable<T> {\n // Query Operations\n /**\n * Returns an iterator over the elements of this sequence that supports removing
elements during iteration.\n * ^\n override fun iterator(): MutableIterator<T>\n}\n\n/**\n * A generic collection
of elements. Methods in this interface support only read-only access to the collection;\n * read/write access is
supported through the [MutableCollection] interface.\n * @param E the type of elements contained in the collection.
The collection is covariant in its element type.\n * ^\npublic interface Collection<out E> : Iterable<E> {\n // Query
Operations\n /**\n * Returns the size of the collection.\n
*\n public val size: Int\n /**\n * Returns `true` if the collection is empty (contains no elements), `false`
otherwise.\n * ^\n public fun isEmpty(): Boolean\n /**\n * Checks if the specified element is contained in
this collection.\n * ^\n public operator fun contains(element: @UnsafeVariance E): Boolean\n override fun
iterator(): Iterator<E>\n // Bulk Operations\n /**\n * Checks if all elements in the specified collection are
contained in this collection.\n * ^\n public fun containsAll(elements: Collection<@UnsafeVariance E>):
Boolean\n}\n\n/**\n * A generic collection of elements that supports adding and removing elements.\n * ^\n *
@param E the type of elements contained in the collection. The mutable collection is invariant in its element type.\n
*\npublic interface MutableCollection<E> : Collection<E>, MutableIterable<E> {\n // Query Operations\n
override fun iterator(): MutableIterator<E>\n // Modification Operations\n
/**\n * Adds the specified element to the collection.\n * ^\n * @return `true` if the element has been added,
`false` if the collection does not support duplicates\n * and the element is already contained in the collection.\n
*\n public fun add(element: E): Boolean\n /**\n * Removes a single instance of the specified element from
this\n * collection, if it is present.\n * ^\n * @return `true` if the element has been successfully removed;
`false` if it was not present in the collection.\n * ^\n public fun remove(element: E): Boolean\n // Bulk
Modification Operations\n /**\n * Adds all of the elements of the specified collection to this collection.\n * ^\n
* @return `true` if any of the specified elements was added to the collection, `false` if the collection was not
modified.\n * ^\n public fun addAll(elements: Collection<E>): Boolean\n /**\n * Removes all of this
collection's elements that are also
contained in the specified collection.\n * ^\n * @return `true` if any of the specified elements was removed from
the collection, `false` if the collection was not modified.\n * ^\n public fun removeAll(elements: Collection<E>):
Boolean\n\n /**\n * Retains only the elements in this collection that are contained in the specified collection.\n
*\n * @return `true` if any element was removed from the collection, `false` if the collection was not modified.\n
*\n public fun retainAll(elements: Collection<E>): Boolean\n\n /**\n * Removes all elements from this
collection.\n * ^\n public fun clear(): Unit\n}\n\n/**\n * A generic ordered collection of elements. Methods in
this interface support only read-only access to the list;\n * read/write access is supported through the [MutableList]
interface.\n * @param E the type of elements contained in the list. The list is covariant in its element type.\n
*\npublic interface List<out E> : Collection<E>
{\n // Query Operations\n\n override val size: Int\n override fun isEmpty(): Boolean\n override fun
contains(element: @UnsafeVariance E): Boolean\n override fun iterator(): Iterator<E>\n // Bulk Operations\n
override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n // Positional Access
Operations\n /**\n * Returns the element at the specified index in the list.\n * ^\n public operator fun
get(index: Int): E\n // Search Operations\n /**\n * Returns the index of the first occurrence of the specified
element in the list, or -1 if the specified\n * element is not contained in the list.\n * ^\n public fun
indexOf(element: @UnsafeVariance E): Int\n /**\n * Returns the index of the last occurrence of the specified
element in the list, or -1 if the specified\n * element is not contained in the list.\n * ^\n public fun
lastIndexOf(element: @UnsafeVariance E): Int\n // List Iterators\n
/**\n * Returns a list iterator over the elements in this list (in proper sequence).\n * ^\n public fun
listIterator(): ListIterator<E>\n /**\n * Returns a list iterator over the elements in this list (in proper
sequence), starting at the specified [index].\n * ^\n public fun listIterator(index: Int): ListIterator<E>\n //

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View\n /**\n * Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and
[toIndex] (exclusive).\n * The returned list is backed by this list, so non-structural changes in the returned list are
reflected in this list, and vice-versa.\n *\n * Structural changes in the base list make the behavior of the view
undefined.\n */\n public fun subList(fromIndex: Int, toIndex: Int): List<E>\n}\n\n/**\n * A generic ordered
collection of elements that supports adding and removing elements.\n * @param E the type of elements contained in
the list. The mutable list is invariant in its element
type.\n */\npublic interface MutableList<E> : List<E>, MutableCollection<E> {\n // Modification Operations\n
/**\n * Adds the specified element to the end of this list.\n *\n * @return `true` because the list is always
modified as the result of this operation.\n */\n override fun add(element: E): Boolean\n\n override fun
remove(element: E): Boolean\n\n // Bulk Modification Operations\n /**\n * Adds all of the elements of the
specified collection to the end of this list.\n *\n * The elements are appended in the order they appear in the
[elements] collection.\n *\n * @return `true` if the list was changed as the result of the operation.\n */\n
override fun addAll(elements: Collection<E>): Boolean\n\n /**\n * Inserts all of the elements of the specified
collection [elements] into this list at the specified [index].\n *\n * @return `true` if the list was changed as the
result of the operation.\n */\n public
fun addAll(index: Int, elements: Collection<E>): Boolean\n\n override fun removeAll(elements: Collection<E>):
Boolean\n\n override fun retainAll(elements: Collection<E>): Boolean\n\n override fun clear(): Unit\n\n //
Positional Access Operations\n /**\n * Replaces the element at the specified position in this list with the
specified element.\n *\n * @return the element previously at the specified position.\n */\n public operator
fun set(index: Int, element: E): E\n\n /**\n * Inserts an element into the list at the specified [index].\n */\n
public fun add(index: Int, element: E): Unit\n\n /**\n * Removes an element at the specified [index] from the
list.\n *\n * @return the element that has been removed.\n */\n public fun removeAt(index: Int): E\n\n //
List Iterators\n override fun listIterator(): MutableListIterator<E>\n\n override fun listIterator(index: Int):
MutableListIterator<E>\n\n // View\n override
fun subList(fromIndex: Int, toIndex: Int): MutableList<E>\n}\n\n/**\n * A generic unordered collection of
elements that does not support duplicate elements.\n * Methods in this interface support only read-only access to the
set;\n * read/write access is supported through the [MutableSet] interface.\n * @param E the type of elements
contained in the set. The set is covariant in its element type.\n */\npublic interface Set<out E> : Collection<E> {\n
// Query Operations\n\n override val size: Int\n\n override fun isEmpty(): Boolean\n\n override fun
contains(element: @UnsafeVariance E): Boolean\n\n override fun iterator(): Iterator<E>\n\n // Bulk Operations\n
override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n}\n\n/**\n * A generic unordered
collection of elements that does not support duplicate elements, and supports\n * adding and removing elements.\n *
@param E the type of elements contained in the set. The mutable set is invariant in its element
type.\n */\npublic interface MutableSet<E> : Set<E>, MutableCollection<E> {\n // Query Operations\n override
fun iterator(): MutableIterator<E>\n\n // Modification Operations\n\n /**\n * Adds the specified element to
the set.\n *\n * @return `true` if the element has been added, `false` if the element is already contained in the
set.\n */\n override fun add(element: E): Boolean\n\n override fun remove(element: E): Boolean\n\n // Bulk
Modification Operations\n\n override fun addAll(elements: Collection<E>): Boolean\n\n override fun
removeAll(elements: Collection<E>): Boolean\n\n override fun retainAll(elements: Collection<E>): Boolean\n\n
override fun clear(): Unit\n}\n\n/**\n * A collection that holds pairs of objects (keys and values) and supports
efficiently retrieving\n * the value corresponding to each key. Map keys are unique; the map holds only one value
for each key.\n * Methods in this interface support only read-only access to the
map; read-write access is supported through\n * the [MutableMap] interface.\n * @param K the type of map keys.
The map is invariant in its key type, as it\n * can accept key as a parameter (of [containsKey] for example) and
return it in [keys] set.\n * @param V the type of map values. The map is covariant in its value type.\n */\npublic
interface Map<K, out V> {\n // Query Operations\n /**\n * Returns the number of key/value pairs in the
map.\n */\n public val size: Int\n\n /**\n * Returns `true` if the map is empty (contains no elements), `false`
otherwise.\n */\n public fun isEmpty(): Boolean\n\n /**\n * Returns `true` if the map contains the specified

```

```

[key].\n    *\n    public fun containsKey(key: K): Boolean\n\n    /**\n     * Returns `true` if the map maps one or more keys to the specified [value].\n     *\n     * public fun containsValue(value: @UnsafeVariance V): Boolean\n\n    /**\n     * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\n     *\n     * public operator fun get(key: K): V?\n\n    /**\n     * Returns the value corresponding to the given [key], or [defaultValue] if such a key is not present in the map.\n     *\n     * @since JDK 1.8\n     *\n     * @SinceKotlin("1.1")\n     * @PlatformDependent\n     * public fun\n     * getOrDefault(key: K, defaultValue: @UnsafeVariance V): V {\n     *     // See default implementation in JDK sources\n     *     throw NotImplementedError()\n     * }\n\n    // Views\n    /**\n     * Returns a read-only [Set] of all keys in this map.\n     *\n     * public val keys: Set<K>\n\n    /**\n     * Returns a read-only [Collection] of all values in this map. Note that this collection may contain duplicate values.\n     *\n     * public val values: Collection<V>\n\n    /**\n     * Returns a read-only [Set] of all key/value pairs in this map.\n     *\n     * public val entries: Set<Map.Entry<K, V>>\n\n    /**\n     * Represents a key/value pair held by a [Map].\n     *\n     * public interface Entry<out K, out V> {\n     *     /**\n     *      * Returns the key of this key/value pair.\n     *     *\n     *     public val key: K\n     *     /**\n     *      * Returns the value of this key/value pair.\n     *     *\n     *     public val value: V\n     * }\n\n    /**\n     * A modifiable collection that holds pairs of objects (keys and values) and supports efficiently retrieving\n     * the value corresponding to each key. Map keys are unique; the map holds only one value for each key.\n     * @param K the type of map keys. The map is invariant in its key type.\n     * @param V the type of map values. The mutable map is invariant in its value type.\n     *\n     * public interface MutableMap<K, V> : Map<K, V> {\n     *     // Modification Operations\n     *     /**\n     *      * Associates the specified [value] with the specified [key] in the map.\n     *     *\n     *     * @return the previous value associated with the key, or `null` if the key was not present in the map.\n     *     *\n     *     public fun put(key: K, value: V): V?\n\n     *     /**\n     *      * Removes the specified key and its corresponding value from this map.\n     *     *\n     *     * @return the previous value associated with the key, or `null` if the key was not present in the map.\n     *     *\n     *     public fun remove(key: K): V?\n\n     *     /**\n     *      * Removes the entry for the specified key only if it is mapped to the specified value.\n     *     *\n     *     * @return true if entry was removed\n     *     *\n     *     @SinceKotlin("1.1")\n     *     @PlatformDependent\n     *     public fun remove(key: K, value: V): Boolean {\n     *         // See default implementation in JDK sources\n     *         return true\n     *     }\n\n     *     // Bulk Modification Operations\n     *     /**\n     *      * Updates this map with key/value pairs from the specified map [from].\n     *     *\n     *     public fun putAll(from: Map<out K, V>): Unit\n\n     *     /**\n     *      * Removes all elements from this map.\n     *     *\n     *     public fun clear(): Unit\n\n     *     // Views\n     *     /**\n     *      * Returns a [MutableSet] of all keys in this map.\n     *     *\n     *     override val keys: MutableSet<K>\n\n     *     /**\n     *      * Returns a [MutableCollection] of all values in this map. Note that this collection may contain duplicate values.\n     *     *\n     *     override val values: MutableCollection<V>\n\n     *     /**\n     *      * Returns a [MutableSet] of all key/value pairs in this map.\n     *     *\n     *     override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n\n     *     /**\n     *      * Represents a key/value pair held by a [MutableMap].\n     *     *\n     *     public interface MutableEntry<K, V> : Map.Entry<K, V> {\n     *         /**\n     *          * Changes the value associated with the key of this entry.\n     *         *\n     *         * @return the previous value corresponding to the key.\n     *         *\n     *         public fun setValue(newValue: V): V\n     *     }\n\n    }\n\n    "/*\n     * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n     */\n\n    // Auto-generated file. DO NOT EDIT!\n    \n    package kotlin.collections\n\n    /**

```

```

An iterator over a sequence of values of type `Byte`. *\npublic abstract class ByteIterator : Iterator<Byte> {\n    override final fun next() = nextByte()\n\n    /** Returns the next value in the sequence without boxing. *\n    public abstract fun nextByte(): Byte\n\n    /** An iterator over a sequence of values of type `Char`. *\n    public abstract class CharIterator : Iterator<Char> {\n        override final fun next() = nextChar()\n\n        /** Returns the next value in the sequence without boxing. *\n        public abstract fun nextChar(): Char\n\n    /** An iterator over a sequence of values of type `Short`. *\n    public abstract class ShortIterator : Iterator<Short> {\n        override final fun next() = nextShort()\n\n        /** Returns the next value in the sequence without boxing. *\n        public abstract fun nextShort(): Short\n\n    /** An iterator over a sequence of values of type `Int`. *\n    public abstract class IntIterator : Iterator<Int> {\n        override final fun next() = nextInt()\n\n    }

```

```

/** Returns the next value in the sequence without boxing. */
public abstract fun nextInt(): Int

/** An iterator over a sequence of values of type `Long`. */
public abstract class LongIterator : Iterator<Long> {
    override final fun next() = nextLong()

/** Returns the next value in the sequence without boxing. */
public abstract fun nextLong(): Long

/** An iterator over a sequence of values of type `Float`. */
public abstract class FloatIterator : Iterator<Float> {
    override final fun next() = nextFloat()

/** Returns the next value in the sequence without boxing. */
public abstract fun nextFloat(): Float

/** An iterator over a sequence of values of type `Double`. */
public abstract class DoubleIterator : Iterator<Double> {
    override final fun next() = nextDouble()

/** Returns the next value in the sequence without boxing. */
public abstract fun nextDouble(): Double

/** An iterator over a sequence of values of type `Boolean`. */
public abstract class BooleanIterator : Iterator<Boolean> {
    override final fun next() = nextBoolean()

/** Returns the next value in the sequence without boxing. */
public abstract fun nextBoolean(): Boolean
}

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 */
// Auto-generated file. DO NOT EDIT!
package kotlin.ranges

/** An iterator over a progression of values of type `Char`.
 * @property step the number by which the value is incremented on each step.
 */
internal class CharProgressionIterator(first: Char, last: Char, val step: Int) : CharIterator() {
    private val finalElement = last.toInt()
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first.toInt() else finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextChar(): Char {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value.toChar()
    }
}

/** An iterator over a progression of values of type `Int`.
 * @property step the number by which the value is incremented on each step.
 */
internal class IntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator() {
    private val finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextInt(): Int {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value
    }
}

/** An iterator over a progression of values of type `Long`.
 * @property step the number by which the value is incremented on each step.
 */
internal class LongProgressionIterator(first: Long, last: Long, val step: Long) : LongIterator() {
    private val finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextLong(): Long {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value
    }
}

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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
// Auto-generated file. DO NOT EDIT!
package kotlin.ranges

import kotlin.internal.getProgressionLastElement

/** A progression of values of type `Char`.
 */
public open class CharProgression(
    internal constructor(
        start: Char,
        endInclusive: Char,
        step: Int
    ) : Iterable<Char> {
    init {
        if (step == 0) throw kotlin.IllegalArgumentException("Step must be non-zero.")
        if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to avoid overflow on negation.")
    }

/** The first element in the progression.
 */
public val first: Char = start

/** The last element in the progression.
 */
public val last: Char = getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toChar()

/** The step of the progression.
 */
public val step: Int = step

    override fun iterator(): CharIterator = CharProgressionIterator(first, last, step)

/** Checks if the progression is empty.
 */
public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last

    override fun equals(other: Any?): Boolean =

```

```

other is CharProgression && (isEmpty() && other.isEmpty()) ||\n    first == other.first && last == other.last &&
step == other.step)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (31 * first.toInt() +
last.toInt()) + step)\n\n    override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo
$last step ${-step}\""\n\n    companion object {\n        /**\n         * Creates CharProgression within the specified
bounds of a closed range.\n         * The progression starts with the [rangeStart] value and goes toward the
[rangeEnd] value not excluding it, with the specified
[step].\n         * In order to go backwards the [step] must be negative.\n         * [step] must be greater than
`Int.MIN_VALUE` and not equal to zero.\n         */\n        public fun fromClosedRange(rangeStart: Char, rangeEnd:
Char, step: Int): CharProgression = CharProgression(rangeStart, rangeEnd, step)\n    }\n\n    /**\n     * A progression
of values of type `Int`.\n     */\n    public open class IntProgression\n        internal constructor\n            (\n                start: Int,\n                endInclusive: Int,\n                step: Int\n            ) : Iterable<Int> {\n        init {\n            if (step == 0) throw
kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n            if (step == Int.MIN_VALUE) throw
kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\n        }\n        /**\n         * The first element in the progression.\n         */\n        public val first: Int = start\n        /**\n         * The last
element in the progression.\n         */\n        public
val last: Int = getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toInt()\n        /**\n         * The step of
the progression.\n         */\n        public val step: Int = step\n        override fun iterator(): IntIterator =
IntProgressionIterator(first, last, step)\n        /** Checks if the progression is empty. */\n        public open fun
isEmpty(): Boolean = if (step > 0) first > last else first < last\n        override fun equals(other: Any?): Boolean =\n            other is IntProgression && (isEmpty() && other.isEmpty()) ||\n                first == other.first && last == other.last &&
step == other.step)\n        override fun hashCode(): Int =\n            if (isEmpty()) -1 else (31 * (31 * first + last) +
step)\n        override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-
step}\""\n        companion object {\n            /**\n             * Creates IntProgression within the specified bounds of a closed
range.\n             * The progression starts with the
[rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n             * In order
to go backwards the [step] must be negative.\n             * [step] must be greater than `Int.MIN_VALUE` and
not equal to zero.\n             */\n            public fun fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int):
IntProgression = IntProgression(rangeStart, rangeEnd, step)\n        }\n\n        /**\n         * A progression of values of type
`Long`.\n         */\n        public open class LongProgression\n            internal constructor\n                (\n                    start: Long,\n                    endInclusive: Long,\n                    step: Long\n                ) : Iterable<Long> {\n            init {\n                if (step == 0L) throw
kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n                if (step == Long.MIN_VALUE) throw
kotlin.IllegalArgumentException(\"Step must be greater than Long.MIN_VALUE to avoid overflow on
negation.\")\n            }\n            /**\n             * The first element in the progression.\n             */\n            public val first:
Long = start\n            /**\n             * The last element in the progression.\n             */\n            public val last: Long =
getProgressionLastElement(start.toLong(), endInclusive.toLong(), step).toLong()\n            /**\n             * The step of the
progression.\n             */\n            public val step: Long = step\n            override fun iterator(): LongIterator =
LongProgressionIterator(first, last, step)\n            /** Checks if the progression is empty. */\n            public open fun
isEmpty(): Boolean = if (step > 0) first > last else first < last\n            override fun equals(other: Any?): Boolean =\n                other is LongProgression && (isEmpty() && other.isEmpty()) ||\n                    first == other.first && last == other.last &&
step == other.step)\n            override fun hashCode(): Int =\n                if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr
32)) + (last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()\n            override fun toString(): String = if (step > 0)
\"$first..$last step $step\" else \"$first downTo $last step ${-step}\""\n            companion object {\n                /**\n                 * Creates LongProgression within the specified bounds of a closed
range.\n                 * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not
excluding it, with the specified [step].\n                 * In order to go backwards the [step] must be negative.\n                 * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.\n                 */\n                public fun
fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart,
rangeEnd, step)\n            }\n        }\n    }\n\n    /**\n     * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language

```

contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage kotlin.ranges\n\n/\*\*\n \* Represents a range of values (for example, numbers or characters).\n \* See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.\n \*/\npublic interface ClosedRange<T: Comparable<T>> {\n /\*\*\n \* The minimum value in the range.\n \*/\n public val start: T\n /\*\*\n \* The maximum value in the range (inclusive).\n \*/\n public val endInclusive: T\n /\*\*\n \* Checks whether the specified [value] belongs to the range.\n \*/\n public operator fun contains(value: T): Boolean = value >= start && value <= endInclusive\n /\*\*\n \* Checks whether the range is empty.\n \*/\n public fun isEmpty(): Boolean = start > endInclusive\n}\n\n"/>\n \* Copyright 2010-2015 JetBrains s.r.o.\n \*/\n \* Licensed under the Apache License, Version 2.0 (the "License");\n \*/\n \* you may not use this file except in compliance with the License.\n \*/\n \* You may obtain a copy of the License at\n \*/\n \* http://www.apache.org/licenses/LICENSE-2.0\n \*/\n \* Unless required by applicable law or agreed to in writing, software\n \*/\n \* distributed under the License is distributed on an "AS IS" BASIS,\n \*/\n \* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n \*/\n \* See the License for the specific language governing permissions and\n \*/\n \* limitations under the License.\n \*/\n\npackage kotlin\n\n/\*\*\n \* The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java.\n \*/\npublic object Unit {\n override fun toString() = "kotlin.Unit"\n}\n\n"/>\n \* Copyright 2010-2015 JetBrains s.r.o.\n \*/\n \* Licensed under the Apache License, Version 2.0 (the "License");\n \*/\n \* you may not use this file except in compliance with the License.\n \*/\n \* You may obtain a copy of the License at\n \*/\n \* http://www.apache.org/licenses/LICENSE-2.0\n \*/\n \* Unless required by applicable law or agreed to in writing, software\n \*/\n \* distributed under the License is distributed on an "AS IS" BASIS,\n \*/\n \* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n \*/\n \* See the License for the specific language governing permissions and\n \*/\n \* limitations under the License.\n \*/\n\npackage kotlin.annotation\n\nimport kotlin.annotation.AnnotationTarget\n\n/\*\*\n \* Contains the list of code elements which are the possible annotation targets\n \*/\npublic enum class AnnotationTarget {\n /\*\* Class, interface or object, annotation class is also included \*/\n CLASS,\n /\*\* Annotation class only \*/\n ANNOTATION\_CLASS,\n /\*\* Generic type parameter (unsupported yet) \*/\n TYPE\_PARAMETER,\n /\*\* Property \*/\n PROPERTY,\n /\*\* Field, including property's backing field \*/\n FIELD,\n /\*\* Local variable \*/\n LOCAL\_VARIABLE,\n /\*\* Value parameter of a function or a constructor \*/\n VALUE\_PARAMETER,\n /\*\* Constructor only (primary or secondary) \*/\n CONSTRUCTOR,\n /\*\* Function (constructors are not included) \*/\n FUNCTION,\n /\*\* Property getter only \*/\n PROPERTY\_GETTER,\n /\*\* Property setter only \*/\n PROPERTY\_SETTER,\n /\*\* Type usage \*/\n TYPE,\n /\*\* Any expression \*/\n EXPRESSION,\n /\*\* File \*/\n FILE,\n /\*\* Type alias \*/\n @SinceKotlin("1.1")\n TYPEALIAS\n}\n\n/\*\*\n \* Contains the list of possible annotation's retentions.\n \*/\n \* Determines how an annotation is stored in binary output.\n \*/\npublic enum class AnnotationRetention {\n /\*\* Annotation isn't stored in binary output \*/\n SOURCE,\n /\*\* Annotation is stored in binary output, but invisible for reflection \*/\n BINARY,\n /\*\* Annotation is stored in binary output and visible for reflection (default retention) \*/\n RUNTIME\n}\n\n/\*\*\n \* This meta-annotation indicates the kinds of code elements which are possible targets of an annotation.\n \*/\n \* If the target meta-annotation is not present on an annotation declaration, the annotation is applicable to the following elements: [CLASS], [PROPERTY], [FIELD], [LOCAL\_VARIABLE], [VALUE\_PARAMETER], [CONSTRUCTOR], [FUNCTION], [PROPERTY\_GETTER], [PROPERTY\_SETTER].\n \*/\n \* @property allowedTargets list of allowed annotation targets\n \*/\n \* @Target(AnnotationTarget.ANNOTATION\_CLASS)\n \*/\npublic annotation class Target(vararg val allowedTargets: AnnotationTarget)\n\n/\*\*\n \* This meta-annotation determines whether an annotation is stored in binary output and visible for reflection. By default, both are true.\n \*/\n \* @property value necessary annotation retention (RUNTIME, BINARY or SOURCE)\n \*/\n \* @Target(AnnotationTarget.ANNOTATION\_CLASS)\n \*/\npublic annotation class Retention(val value:

```

AnnotationRetention = AnnotationRetention.RUNTIME)\n\n/**\n * This meta-annotation determines that an
annotation is applicable twice or more on a single code element\n
*/\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class Repeatable\n\n/**\n * This
meta-annotation determines that an annotation is a part of public API and therefore should be included in the
generated\n * documentation for the element to which the annotation is applied.\n
*/\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic
annotation class MustBeDocumented\n", "/*\n * Copyright 2010-2016 JetBrains s.r.o.\n * \n * Licensed under the
Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in compliance with the
License.\n * You may obtain a copy of the License at\n * \n * http://www.apache.org/licenses/LICENSE-2.0\n * \n *
Unless required by applicable law or agreed to in writing, software\n * distributed under the License is distributed
on an \"AS IS\" BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied.\n * See the License for the specific language governing permissions and\n * limitations under the
License.\n */\n\npackage kotlin.internal\n\n/**\n * Specifies that the corresponding type parameter is not used for
unsafe operations such as casts or 'is' checks\n * That means it's completely safe to use generic types as argument for
such parameter.\n
*/\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal
annotation class PureReifiable\n\n/**\n * Specifies that the corresponding built-in method exists depending on
platform.\n * Current implementation for JVM looks whether method with same JVM descriptor exists in the
module JDK.\n * For example MutableMap.remove(K, V) available only if corresponding\n * method
'java/util/Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)\n
*/\n@Target(AnnotationTarget.FUNCTION)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation
class PlatformDependent\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n// a mod b (in arithmetical sense)\nprivate fun mod(a:
Int, b: Int): Int {\n    val mod = a % b\n    return if (mod >= 0) mod else mod + b\n}\n\nprivate fun mod(a: Long, b:
Long): Long {\n    val mod = a %
b\n    return if (mod >= 0) mod else mod + b\n}\n\n// (a - b) mod c\nprivate fun differenceModulo(a: Int, b: Int, c:
Int): Int {\n    return mod(mod(a, c) - mod(b, c), c)\n}\n\nprivate fun differenceModulo(a: Long, b: Long, c: Long):
Long {\n    return mod(mod(a, c) - mod(b, c), c)\n}\n\n/**\n * Calculates the final element of a bounded arithmetic
progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a
positive [step], or from [end] to [start] in case of a negative\n * [step].\n * \n * No validation on passed parameters is
performed. The given parameters should satisfy the condition:\n * \n * - either `step > 0` and `start <= end`,\n * - or
`step < 0` and `start >= end`.\n * \n * @param start first element of the progression\n * @param end ending bound
for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return
the final element of the progression\n * @suppress\n */\n@PublishedApi\ninternal
fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {\n    step > 0 -> if (start >= end) end else
end - differenceModulo(end, start, step)\n    step < 0 -> if (start <= end) end else end + differenceModulo(start, end,
-step)\n    else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\n}\n\n/**\n * Calculates the final element
of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to
[end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * \n * No validation on
passed parameters is performed. The given parameters should satisfy the condition:\n * \n * - either `step > 0` and
`start <= end`,\n * - or `step < 0` and `start >= end`.\n * \n * @param start first element of the progression\n *
@param end ending bound for the progression\n * @param step increment, or difference of successive elements in
the progression\n * @return the final element
of the progression\n * @suppress\n */\n@PublishedApi\ninternal fun getProgressionLastElement(start: Long, end:
Long, step: Long): Long = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start,
step)\n    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\n    else -> throw
kotlin.IllegalArgumentException(\"Step is zero.\")\n}\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin

```

```

Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\n@JsName("\arrayIterator")\ninternal fun arrayIterator(array:
dynamic, type: String?) = when (type) {\n    null -> {\n        val arr: Array<dynamic> = array\n        object :
Iterator<dynamic> {\n            var index = 0\n            override fun hasNext() = index < arr.size\n            override fun
next() = if (index < arr.size) arr[index++] else throw NoSuchElementException("\$index")\n
        }\n    }\n    "\BooleanArray" -> booleanArrayIterator(array)\n    "\ByteArray" -> byteArrayIterator(array)\n
"\ShortArray" -> shortArrayIterator(array)\n    "\CharArray" -> charArrayIterator(array)\n    "\IntArray" ->
intArrayIterator(array)\n    "\LongArray" -> longArrayIterator(array)\n    "\FloatArray" ->
floatArrayIterator(array)\n    "\DoubleArray" -> doubleArrayIterator(array)\n    else -> throw
IllegalStateException("\Unsupported type argument for arrayIterator:
$type")\n}\n\n@JsName("\booleanArrayIterator")\ninternal fun booleanArrayIterator(array: BooleanArray) =
object : BooleanIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override fun
nextBoolean() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName("\byteArrayIterator")\ninternal fun byteArrayIterator(array:
ByteArray) = object : ByteIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n
    override fun nextByte() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName("\shortArrayIterator")\ninternal fun
shortArrayIterator(array: ShortArray) = object : ShortIterator() {\n    var index = 0\n    override fun hasNext() =
index < array.size\n    override fun nextShort() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName("\charArrayIterator")\ninternal fun charArrayIterator(array:
CharArray) = object : CharIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override
fun nextChar() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName("\intArrayIterator")\ninternal fun intArrayIterator(array:
IntArray) = object : IntIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override fun
nextInt() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName("\floatArrayIterator")\ninternal
fun floatArrayIterator(array: FloatArray) = object : FloatIterator() {\n    var index = 0\n    override fun hasNext() =
index < array.size\n    override fun nextFloat() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName("\doubleArrayIterator")\ninternal fun
doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {\n    var index = 0\n    override fun hasNext()
= index < array.size\n    override fun nextDouble() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName("\longArrayIterator")\ninternal fun longArrayIterator(array:
LongArray) = object : LongIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n
    override fun nextLong() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName("\PropertyMetadata")\ninternal class
PropertyMetadata(@JsName("\callableName")
    val name: String)\n\n@JsName("\noWhenBranchMatched")\ninternal fun noWhenBranchMatched(): Nothing =
throw NoWhenBranchMatchedException()\n\n@JsName("\subSequence")\ninternal fun subSequence(c:
CharSequence, startIndex: Int, endIndex: Int): CharSequence {\n    if (c is String) {\n        return
c.substring(startIndex, endIndex)\n    } else {\n        return c.asDynamic().`subSequence_vux9f0$(startIndex,
endIndex)`\n    }\n}\n\n@JsName("\captureStack")\ninternal fun
captureStack(@Suppress("\UNUSED_PARAMETER") baseClass: JsClass<in Throwable>, instance: Throwable)
{\n    if (js("\Error").captureStackTrace) {\n        // Using uncropped stack traces due to KT-37563.\n        // Precise
stack traces are implemented in JS IR compiler and stdlib\n        js("\Error").captureStackTrace(instance);\n    } else
{\n        instance.asDynamic().stack = js("\new Error()").stack;\n    }\n}\n\n@JsName("\newThrowable")\ninternal
fun newThrowable(message: String?, cause:
    Throwable?): Throwable {\n    val throwable = js("\new Error()")\n    throwable.message = if (jsTypeOf(message)
== "\undefined") {\n        if (cause != null) cause.toString() else null\n    } else {\n        message\n    }\n}

```

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throwable.cause = cause\n    throwable.name = \"Throwable\"\n    return
throwable\n}\n\n@JsName(\"BoxedChar\")\ninternal class BoxedChar(val c: Int) : Comparable<Int> {\n    override
fun equals(other: Any?): Boolean {\n        return other is BoxedChar && c == other.c\n    }\n\n    override fun
hashCode(): Int {\n        return c\n    }\n\n    override fun toString(): String {\n        return
js(\"this.c\").unsafeCast<Char>().toString()\n    }\n\n    override fun compareTo(other: Int): Int {\n        return
js(\"this.c - other\").unsafeCast<Int>()\n    }\n\n    @JsName(\"valueOf\")\n    public fun valueOf(): Int {\n
return c\n    }\n}\n\n@kotlin.internal.InlineOnly\ninternal inline fun <T> concat(args: Array<T>): T {\n    val typed
= js(\"Array\")(args.size)\n
    for (i in args.indices) {\n        val arr = args[i]\n        if (arr !is Array<*>) {\n            typed[i] =
js(\"[]\").slice.call(arr)\n        } else {\n            typed[i] = arr\n        }\n    }\n    return js(\"[]\").concat.apply(js(\"[]\"),
typed);\n}\n\n/** Concat regular Array's and TypedArray's into an Array.\n
*/\n\n@PublishedApi\n@JsName(\"arrayConcat\")\n@Suppress(\"UNUSED_PARAMETER\")\ninternal fun <T>
arrayConcat(a: T, b: T): T {\n    return concat(js(\"arguments\"))\n}\n\n/** Concat primitive arrays. Main use:
prepare vararg arguments.\n
* For compatibility with 1.1.0 the arguments may be a mixture of Array's and
TypedArray's.\n
* If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray)
returns a TypedArray, otherwise an Array.\n
* If the first argument has the $type$ property (Boolean-, Char-, and
LongArray) copy its value to result.$type$.\n
* If the first argument is a regular Array without the $type$ property
default
to arrayConcat.\n
*/\n\n@PublishedApi\n@JsName(\"primitiveArrayConcat\")\n@Suppress(\"UNUSED_PARAMETER\")\ninternal
fun <T> primitiveArrayConcat(a: T, b: T): T {\n    val args: Array<T> = js(\"arguments\")\n    if (a is Array<*> &&
a.asDynamic().`$type$` === undefined) {\n        return concat(args)\n    } else {\n        var size = 0\n        for (i in
args.indices) {\n            size += args[i].asDynamic().length as Int\n        }\n        val result = js(\"new
a.constructor(size)\")\n        kotlin.copyArrayType(a, result)\n        size = 0\n        for (i in args.indices) {\n            val
arr = args[i].asDynamic()\n            for (j in 0 until arr.length) {\n                result[size++] = arr[j]\n            }\n        }\n
return result\n    }\n}\n\n@JsName(\"booleanArrayOf\")\ninternal fun booleanArrayOf() =
withType(\"BooleanArray\", js(\"[]\").slice.call(arguments))\n}\n\n@JsName(\"charArrayOf\") // The arguments have
to be slice'd here because of Rhino (see KT-16974)\ninternal
fun charArrayOf() = withType(\"CharArray\", js(\"new
Uint16Array([]\").slice.call(arguments)))\n}\n\n@JsName(\"longArrayOf\")\ninternal fun longArrayOf() =
withType(\"LongArray\",
js(\"[]\").slice.call(arguments))\n}\n\n@JsName(\"withType\")\n@kotlin.internal.InlineOnly\ninternal inline fun
withType(type: String, array: dynamic): dynamic {\n    array.`$type$` = type\n    return array\n}\n\n/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
* Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.js\n\n/**\n
* Function corresponding to JavaScript's `typeof` operator\n
*/\n\n@kotlin.internal.InlineOnly\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline fun jsTypeOf(a: Any?):
String = js(\"typeof a\")\n}\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*/\n\n@file:Suppress(\"UNUSED_PARAMETER\",
\"NOTHING_TO_INLINE\")\n\npackage kotlin\n\n/**\n
* Returns an empty array of the specified type [T].\n
*/\n\npublic inline fun <T> emptyArray(): Array<T> = js(\"[]\")\n}\n\n@library\npublic fun <T> arrayOf(vararg
elements: T): Array<T> = definedExternally\n}\n\n@library\npublic fun doubleArrayOf(vararg elements: Double):
DoubleArray = definedExternally\n}\n\n@library\npublic fun floatArrayOf(vararg elements: Float): FloatArray =
definedExternally\n}\n\n@library\npublic fun longArrayOf(vararg elements: Long): LongArray =
definedExternally\n}\n\n@library\npublic fun intArrayOf(vararg elements: Int): IntArray =
definedExternally\n}\n\n@library\npublic fun charArrayOf(vararg elements: Char): CharArray =
definedExternally\n}\n\n@library\npublic fun shortArrayOf(vararg elements: Short): ShortArray =
definedExternally\n}\n

```

```

definedExternally\n\n@library\npublic fun byteArrayOf(vararg elements: Byte): ByteArray =
definedExternally\n\n@library\npublic fun
booleanArrayOf(vararg elements: Boolean): BooleanArray = definedExternally\n\n/**\n * Creates a new instance
of the [Lazy] that uses the specified initialization function [initializer].\n */\n\npublic actual fun <T> lazy(initializer: ()
-> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n * Creates a new instance of the [Lazy] that uses the
specified initialization function [initializer].\n */\n\n * The [mode] parameter is ignored. *\n\npublic actual fun <T>
lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n * Creates
a new instance of the [Lazy] that uses the specified initialization function [initializer].\n */\n\n * The [lock] parameter
is ignored.\n */\n\npublic actual fun <T> lazy(lock: Any?, initializer: () -> T): Lazy<T> =
UnsafeLazyImpl(initializer)\n\n\ninternal fun fillFrom(src: dynamic, dst: dynamic): dynamic {\n    val srcLen: Int =
src.length\n    val dstLen: Int = dst.length\n    var index: Int = 0\n    while (index < srcLen && index
< dstLen) dst[index] = src[index++]\n    return dst\n}\n\n\ninternal fun arrayCopyResize(source: dynamic, newSize:
Int, defaultValue: Any?): dynamic {\n    val result = source.slice(0, newSize)\n    copyArrayType(source, result)\n
var index: Int = source.length\n    if (newSize > index) {\n        result.length = newSize\n        while (index <
newSize) result[index++] = defaultValue\n    }\n    return result\n}\n\n\ninternal fun <T> arrayPlusCollection(array:
dynamic, collection: Collection<T>): dynamic {\n    val result = array.slice()\n    result.length += collection.size\n
copyArrayType(array, result)\n    var index: Int = array.length\n    for (element in collection) result[index++] =
element\n    return result\n}\n\n\ninternal fun <T> fillFromCollection(dst: dynamic, startIndex: Int, collection:
Collection<T>): dynamic {\n    var index = startIndex\n    for (element in collection) dst[index++] = element\n
return dst\n}\n\n\ninternal inline fun copyArrayType(from: dynamic,
to: dynamic) {\n    if (from.`$type$` !== undefined) {\n        to.`$type$` = from.`$type$`\n    }\n}\n\n\ninternal inline
fun jsIsType(obj: dynamic, jsClass: dynamic) = js("\\Kotlin").isType(obj, jsClass)", "/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@SinceKotlin("1.3")\n@JsName("\\CoroutineImpl")\n\ninternal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?>
{\n    protected var state = 0\n    protected var exceptionState = 0\n    protected var result: Any? = null\n    protected
var exception: Throwable? = null\n    protected var finallyPath: Array<Int>? = null\n\n    public override val context:
CoroutineContext = resultContinuation.context\n\n    private var intercepted_: Continuation<Any?>?
= null\n\n    public fun intercepted(): Continuation<Any?> =\n        intercepted_ ?:
(context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)\n        .also { intercepted_ = it }\n\n\n    override fun resumeWith(result: Result<Any?>) {\n        var current = this\n        var currentResult: Any? =
result.getOrNull()\n        var currentException: Throwable? = result.exceptionOrNull()\n        // This loop unrolls
recursion in current.resumeWith(param) to make saner and shorter stack traces on resume\n        while (true) {\n
            with(current) {\n                val completion = resultContinuation\n                // Set result and exception fields in
the current continuation\n                if (currentException == null) {\n                    this.result = currentResult\n
                } else {\n                    state = exceptionState\n                    exception = currentException\n                }\n
            }\n            try\n                {\n                    val outcome = doResume()\n                    if (outcome === COROUTINE_SUSPENDED) return\n
                    currentResult = outcome\n                    currentException = null\n                } catch (exception: dynamic) { //
Catch all exceptions\n                    currentResult = null\n                    currentException =
exception.unsafeCast<Throwable>()\n                }\n                releaseIntercepted() // this state machine instance is
terminating\n                if (completion is CoroutineImpl) {\n                    // unrolling recursion via loop\n                    current = completion\n                } else {\n                    // top-level completion reached -- invoke and return\n                    currentException?.let {\n                        completion.resumeWithException(it)\n                    } ?:
                    completion.resume(currentResult)\n                    return\n                }\n            }\n            private
fun releaseIntercepted() {\n                val intercepted = intercepted_ \n                if (intercepted != null && intercepted !==
this) {\n                    context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)\n                }\n
}

```

```

this.intercepted_ = CompletedContinuation // just in case\n    }\n\n    protected abstract fun doResume():
Any?\n}\n\ninternal object CompletedContinuation : Continuation<Any?> {\n    override val context:
CoroutineContext\n        get() = error("This continuation is already complete")\n\n    override fun
resumeWith(result: Result<Any?>) {\n        error("This continuation is already complete")\n    }\n\n    override fun
toString(): String = "This continuation is already complete"\n}\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n@file:Suppress("UNCHECKED_CAST",
"RedundantVisibilityModifier")\n\npackage
kotlin\n\nimport kotlin.contracts.*\nimport kotlin.internal.InlineOnly\nimport kotlin.jvm.JvmField\nimport
kotlin.jvm.JvmName\n\n/**\n * A discriminated union that encapsulates a successful outcome with a value of type
[T]\n * or a failure with an arbitrary [Throwable] exception.\n */\n\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@SinceKotlin("1.3")\npublic inline class Result<out T> @PublishedApi internal constructor(\n    @PublishedApi\n    internal val value:
Any?\n) : Serializable {\n    // discovery\n\n    /**\n     * Returns `true` if this instance represents a successful
outcome.\n     * In this case [isFailure] returns `false`.\n     */\n    public val isSuccess: Boolean get() = value !=
Failure\n\n    /**\n     * Returns `true` if this instance represents a failed outcome.\n     * In this case [isSuccess]
returns `false`.\n     */\n    public val isFailure: Boolean get() = value is Failure\n\n    // value & exception
retrieval\n\n    /**\n     * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or
`null`\n     * if it is [failure][Result.isFailure].\n     */\n    * This function is a shorthand for `getOrNull` (see
[getOrNull]) or\n     * `fold(onSuccess = { it }, onFailure = { null })` (see [fold]).\n     */\n    @InlineOnly\n    public
inline fun getOrNull(): T? =\n        when {\n            isFailure -> null\n            else -> value as T\n        }\n\n    /**\n     * Returns the encapsulated [Throwable] exception if this instance represents [failure][isFailure] or `null`\n     * if it
is [success][isSuccess].\n     */\n    * This function is a shorthand for `fold(onSuccess = { null }, onFailure = { it })`
(see [fold]).\n     */\n    public fun exceptionOrNull(): Throwable? =\n        when (value) {\n            is Failure ->
value.exception\n            else -> null\n        }\n\n    /**\n     * Returns a string `Success(v)` if this instance represents
[success][Result.isSuccess]\n     * where `v` is a string representation of the value or a string `Failure(x)` if\n     * it
is [failure][isFailure] where `x` is a string representation of the exception.\n     */\n    public override fun toString():
String =\n        when (value) {\n            is Failure -> value.toString() // "Failure($exception)"\n            else ->
"Success($value)"\n        }\n\n    // companion with constructors\n\n    /**\n     * Companion object for [Result]
class that contains its constructor functions\n     * [success] and [failure].\n     */\n    public companion object {\n\n        /**\n         * Returns an instance that encapsulates the given [value] as successful value.\n         */\n        @Suppress("INAPPLICABLE_JVM_NAME")\n        @InlineOnly\n        @JvmName("success")\n        public
inline fun <T> success(value: T): Result<T> =\n            Result(value)\n\n        /**\n         * Returns an instance that
encapsulates the given [Throwable]
[exception] as failure.\n         */\n        @Suppress("INAPPLICABLE_JVM_NAME")\n        @InlineOnly\n        @JvmName("failure")\n        public inline fun <T> failure(exception: Throwable): Result<T> =\n            Result(createFailure(exception))\n    }\n\n    internal class Failure(\n        @JvmField\n        val exception:
Throwable\n    ) : Serializable {\n        override fun equals(other: Any?): Boolean = other is Failure && exception
== other.exception\n        override fun hashCode(): Int = exception.hashCode()\n        override fun toString(): String
= "Failure($exception)"\n    }\n\n    /**\n     * Creates an instance of internal marker [Result.Failure] class to\n     *
make sure that this class is not exposed in ABI.\n     */\n    @PublishedApi\n    @SinceKotlin("1.3")\n    internal fun
createFailure(exception: Throwable): Any =\n        Result.Failure(exception)\n\n    /**\n     * Throws exception if the result
is failure. This internal function minimizes\n     * inlined bytecode for [getOrThrow]
and makes sure that in the future we can\n     * add some exception-augmenting logic here (if needed).\n     */\n    @PublishedApi\n    @SinceKotlin("1.3")\n    internal fun Result<*>.throwOnFailure() {\n        if (value is
Result.Failure) throw value.exception\n    }\n\n    /**\n     * Calls the specified function [block] and returns its encapsulated
result if invocation was successful,\n     * catching any [Throwable] exception that was thrown from the [block]
function execution and encapsulating it as a failure.\n     */\n    @InlineOnly\n    @SinceKotlin("1.3")\n    public inline fun

```

```

<R> runCatching(block: () -> R): Result<R> {
    return try {
        Result.success(block())
    } catch (e:
    Throwable) {
        Result.failure(e)
    }
}

/**
 * Calls the specified function [block] with `this` value as its
 * receiver and returns its encapsulated result if invocation was successful,
 * catching any [Throwable] exception that
 * was thrown from the [block] function execution and encapsulating it as a failure.
 */
@InlineOnly
@SinceKotlin("1.3")
public
inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {
    return try {
        Result.success(block())
    }
    catch (e: Throwable) {
        Result.failure(e)
    }
}

// -- extensions --
/**
 * Returns the encapsulated
 * value if this instance represents [success][Result.isSuccess] or throws the encapsulated [Throwable] exception
 * if it is [failure][Result.isFailure].
 */
/**
 * This function is a shorthand for `getOrElse { throw it }` (see [getOrElse]).
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Result<T>.getOrThrow(): T {
    throwOnFailure()
    return value as T
}

/**
 * Returns the encapsulated value if this instance represents
 * [success][Result.isSuccess] or the
 * result of [onFailure] function for the encapsulated [Throwable] exception if it
 * is [failure][Result.isFailure].
 */
/**
 * Note, that this function rethrows any [Throwable] exception thrown by
 * [onFailure] function.
 */
/**
 * This function is a shorthand
 * for `fold(onSuccess = { it }, onFailure = onFailure)` (see [fold]).
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T : R> Result<T>.getOrElse(onFailure: (exception:
    Throwable) -> R): R {
    contract {
        callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)
    }
    return when (val exception = exceptionOrNull()) {
        null -> value as T
        else -> onFailure(exception)
    }
}

/**
 * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the
 * [defaultValue] if it is [failure][Result.isFailure].
 */
/**
 * This function is a shorthand for `getOrElse { defaultValue
 * }` (see [getOrElse]).
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T : R>
    Result<T>.getOrDefault(defaultValue: R): R {
    if (isFailure) return defaultValue
    return value as T
}

/**
 * Returns the result of [onSuccess] for the encapsulated value if this instance represents
 * [success][Result.isSuccess]
 * or the
 * result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure][Result.isFailure].
 */
/**
 * Note, that this function rethrows any [Throwable] exception thrown by [onSuccess] or by [onFailure] function.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.fold(
    onSuccess: (value: T) -> R,
    onFailure: (exception: Throwable) -> R): R {
    contract {
        callsInPlace(onSuccess,
        InvocationKind.AT_MOST_ONCE)
        callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)
    }
    return when (val exception = exceptionOrNull()) {
        null -> onSuccess(value as T)
        else ->
        onFailure(exception)
    }
}

// transformation
/**
 * Returns the encapsulated result of the given
 * [transform] function applied to the encapsulated value
 * if this instance represents [success][Result.isSuccess] or
 * the
 * original encapsulated [Throwable] exception if it is [failure][Result.isFailure].
 */
/**
 * Note, that this function
 * rethrows any [Throwable] exception thrown by [transform] function.
 */
/**
 * See [mapCatching] for an alternative that
 * encapsulates exceptions.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T>
    Result<T>.map(transform: (value: T) -> R): Result<R> {
    contract {
        callsInPlace(transform,
        InvocationKind.AT_MOST_ONCE)
    }
    return when {
        isSuccess -> Result.success(transform(value as T))
        else -> Result(value)
    }
}

/**
 * Returns the encapsulated result of the given [transform] function
 * applied to the encapsulated value
 * if this instance represents [success][Result.isSuccess] or the
 * original
 * encapsulated [Throwable] exception if it is [failure][Result.isFailure].
 */
/**
 * This function catches any [Throwable]
 * exception thrown by [transform] function and encapsulates it as a failure.
 */
/**
 * See [map] for an alternative that
 * rethrows exceptions from `transform` function.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun
    <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {
    return when {
        isSuccess ->
        runCatching { transform(value as T) }
        else -> Result(value)
    }
}

/**
 * Returns the encapsulated
 * result of the given [transform] function applied to the encapsulated [Throwable] exception
 * if this instance
 * represents [failure][Result.isFailure] or the
 * original encapsulated value if it is [success][Result.isSuccess].
 */
/**
 * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.
 */
/**
 * See
 * [recoverCatching] for an alternative that encapsulates exceptions.
 */

```

```

*^@InlineOnly^@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.recover(transform: (exception:
Throwable) -> R): Result<R> {\n contract {\n callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n
}\n return when (val exception = exceptionOrNull()) {\n null -> this\n else ->
Result.success(transform(exception))\n }\n}\n\n/**\n
* Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable]
exception\n * if this instance represents [failure][Result.isFailure] or the\n * original encapsulated value if it is
[success][Result.isSuccess].\n * This function catches any [Throwable] exception thrown by [transform]
function and encapsulates it as a failure.\n * See [recover] for an alternative that rethrows exceptions.\n
*\n@InlineOnly^@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.recoverCatching(transform:
(exception: Throwable) -> R): Result<R> {\n return when (val exception = exceptionOrNull()) {\n null ->
this\n else -> runCatching { transform(exception) }\n }\n}\n\n// "peek" onto value/exception and
pipe\n\n/**\n * Performs the given [action] on the encapsulated [Throwable] exception if this instance represents
[failure][Result.isFailure].\n * Returns the original `Result` unchanged.\n
*\n@InlineOnly^@SinceKotlin("1.3")\npublic
inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {\n contract {\n
callsInPlace(action, InvocationKind.AT_MOST_ONCE)\n }\n exceptionOrNull()?.let { action(it) }\n return
this\n}\n\n/**\n * Performs the given [action] on the encapsulated value if this instance represents
[success][Result.isSuccess].\n * Returns the original `Result` unchanged.\n
*\n@InlineOnly^@SinceKotlin("1.3")\npublic inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit):
Result<T> {\n contract {\n callsInPlace(action, InvocationKind.AT_MOST_ONCE)\n }\n if (isSuccess)
action(value as T)\n return this\n}\n\n// -----\n"/\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\npackage kotlin.coroutines\n\nimport kotlin.contracts.*\nimport
kotlin.coroutines.intrinsics.*\nimport
kotlin.internal.InlineOnly\n\n/**\n * Interface representing a continuation after a suspension point that returns a
value of type `T`.\n *\n@SinceKotlin("1.3")\npublic interface Continuation<in T> {\n /**\n * The context of
the coroutine that corresponds to this continuation.\n *\n public val context: CoroutineContext\n\n /**\n *
Resumes the execution of the corresponding coroutine passing a successful or failed [result] as the\n * return
value of the last suspension point.\n *\n public fun resumeWith(result: Result<T>)\n}\n\n/**\n * Classes and
interfaces marked with this annotation are restricted when used as receivers for extension\n * `suspend` functions.
These `suspend` extensions can only invoke other member or extension `suspend` functions on this particular\n *
receiver and are restricted from calling arbitrary suspension functions.\n
*\n@SinceKotlin("1.3")\n@Target(AnnotationTarget.CLASS)\n@Retention(AnnotationRetention.BINARY)\npu
blic
annotation class RestrictsSuspension\n\n/**\n * Resumes the execution of the corresponding coroutine passing
[value] as the return value of the last suspension point.\n *\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline
fun <T> Continuation<T>.resume(value: T): Unit =\n resumeWith(Result.success(value))\n\n/**\n * Resumes the
execution of the corresponding coroutine so that the [exception] is re-thrown right after the\n * last suspension
point.\n *\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline fun <T>
Continuation<T>.resumeWithException(exception: Throwable): Unit =\n
resumeWith(Result.failure(exception))\n}\n\n/**\n * Creates a [Continuation] instance with the given [context] and
implementation of [resumeWith] method.\n *\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline fun <T>
Continuation(\n context: CoroutineContext,\n crossinline resumeWith: (Result<T>) -> Unit\n): Continuation<T>
=\n object : Continuation<T> {\n override val
context: CoroutineContext\n get() = context\n\n override fun resumeWith(result: Result<T>) =\n
resumeWith(result)\n }\n\n/**\n * Creates a coroutine without a receiver and with result type [T].\n * This
function creates a new, fresh instance of suspendable computation every time it is invoked.\n *\n * To start
executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The

```

[completion] continuation is invoked when the coroutine completes with a result or an exception. \n \* Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException]. \n

```

*\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <T> (suspend () ->
T).createCoroutine(\n    completion: Continuation<T>\n): Continuation<Unit> =\nSafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)\n\n/**\n * Creates a coroutine with receiver type [R] and result
type [T]. \n * This function creates a new, fresh instance of suspendable computation every time it is invoked. \n * \n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance. \n * The
[completion] continuation is invoked when the coroutine completes with a result or an exception. \n * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException]. \n
*\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <R, T> (suspend R.() ->
T).createCoroutine(\n    receiver: R,\n    completion: Continuation<T>\n): Continuation<Unit> =\nSafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(),
COROUTINE_SUSPENDED)\n\n/**\n * Starts a coroutine without a receiver and with result type [T]. \n * This
function creates and starts a new, fresh instance of suspendable computation every time it is invoked. \n * The
[completion] continuation is invoked when the coroutine
completes with a result or an exception. \n
*\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <T> (suspend () ->
T).startCoroutine(\n    completion: Continuation<T>\n) {\n
createCoroutineUnintercepted(completion).intercepted().resume(Unit)\n}\n\n/**\n * Starts a coroutine with receiver
type [R] and result type [T]. \n * This function creates and starts a new, fresh instance of suspendable computation
every time it is invoked. \n * The [completion] continuation is invoked when the coroutine completes with a result or
an exception. \n *\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <R, T> (suspend
R.() -> T).startCoroutine(\n    receiver: R,\n    completion: Continuation<T>\n) {\n
createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\n}\n\n/**\n * Obtains the current
continuation instance inside suspend functions and suspends \n * the currently running coroutine. \n * \n * In this
function both [Continuation.resume] and [Continuation.resumeWithException]
can be used either synchronously in \n * the same stack-frame where the suspension function is run or
asynchronously later in the same thread or \n * from a different thread of execution. Subsequent invocation of any
resume function will produce an [IllegalStateException]. \n *\n@SinceKotlin("1.3")\n@InlineOnly\npublic
suspend inline fun <T> suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T {\n    contract {
callsInPlace(block, InvocationKind.EXACTLY_ONCE) }\n    return suspendCoroutineUninterceptedOrReturn { c:
Continuation<T> ->\n        val safe = SafeContinuation(c.intercepted())\n        block(safe)\n
safe.getOrThrow()\n    }\n}\n\n/**\n * Returns the context of the current coroutine. \n
*\n@SinceKotlin("1.3")\n@Suppress("WRONG_MODIFIER_TARGET")\n@InlineOnly\npublic suspend inline
val coroutineContext: CoroutineContext\n    get() {\n        throw NotImplementedError("Implemented as
intrinsic")\n    }\n}"/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file. \n *\n@n\npackage
kotlin.coroutines.intrinsics\n\nimport kotlin.coroutines.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Starts an
unintercepted coroutine without a receiver and with result type [T] and executes it until its first suspension. \n *
Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if
it suspends. \n * In the latter case, the [completion] continuation is invoked when the coroutine completes with a
result or an exception. \n * \n * The coroutine is started directly in the invoker's thread without going through the
[ContinuationInterceptor] that might \n * be present in the completion's [CoroutineContext]. It is the invoker's
responsibility to ensure that a proper invocation \n * context is established. \n * \n * This function is designed
to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended \n *
coroutine using a reference to the suspending function. \n *\n@SinceKotlin("1.3")\n@InlineOnly\npublic actual

```

```

inline fun <T> (suspend () -> T).startCoroutineUninterceptedOrReturn(\n  completion: Continuation<T>\n): Any?
= this.asDynamic()(completion, false)\n\n/**\n * Starts an unintercepted coroutine with receiver type [R] and result
type [T] and executes it until its first suspension.\n * Returns the result of the coroutine or throws its exception if it
does not suspend or [COROUTINE_SUSPENDED] if it suspends.\n * In the latter case, the [completion]
continuation is invoked when the coroutine completes with a result or an exception.\n *\n * The coroutine is started
directly in the invoker's thread without going through the [ContinuationInterceptor] that might\n * be present in the
completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper
invocation\n * context is established.\n *\n * This function is designed to be used from inside of
[suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\n * coroutine using a reference
to the suspending function.\n *\n@SinceKotlin("1.3")\n@InlineOnly\npublic actual inline fun <R, T> (suspend
R.() -> T).startCoroutineUninterceptedOrReturn(\n  receiver: R,\n  completion: Continuation<T>\n): Any? =
this.asDynamic()(receiver, completion, false)\n\n@InlineOnly\ninternal actual inline fun <R, P, T> (suspend R.(P) -
> T).startCoroutineUninterceptedOrReturn(\n  receiver: R,\n  param: P,\n  completion: Continuation<T>\n):
Any? = this.asDynamic()(receiver, param, completion, false)\n\n/**\n * Creates unintercepted coroutine without
receiver and with result type [T].\n * This function creates a new, fresh instance of suspendable computation every
time it is invoked.\n *\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned
[Continuation]
instance.\n * The [completion] continuation is invoked when coroutine completes with result or exception.\n *\n *
This function returns unintercepted continuation.\n * Invocation of `resume(Unit)` starts coroutine immediately in
the invoker's call stack without going through the\n * [ContinuationInterceptor] that might be present in the
completion's [CoroutineContext].\n * It is the invoker's responsibility to ensure that a proper invocation context is
established.\n * Note that [completion] of this function may get invoked in an arbitrary context.\n *\n *
[Continuation.intercepted] can be used to acquire the intercepted continuation.\n * Invocation of `resume(Unit)` on
intercepted continuation guarantees that execution of\n * both the coroutine and [completion] happens in the
invocation context established by\n * [ContinuationInterceptor].\n *\n * Repeated invocation of any resume function
on the resulting continuation corrupts the\n * state machine of the coroutine and may
result in arbitrary behaviour or exception.\n *\n@SinceKotlin("1.3")\npublic actual fun <T> (suspend () ->
T).createCoroutineUnintercepted(\n  completion: Continuation<T>\n): Continuation<Unit> =\n // Kotlin/JS
suspend lambdas have an extra parameter `suspended`\n  if (this.asDynamic().length == 2) {\n // When
`suspended` is true the continuation is created, but not executed\n    this.asDynamic()(completion, true)\n  } else
{\n    createCoroutineFromSuspendFunction(completion) {\n      this.asDynamic()(completion)\n    }\n  }\n\n/**\n * Creates unintercepted coroutine with receiver
type [R] and result type [T].\n * This function creates a
new, fresh instance of suspendable computation every time it is invoked.\n *\n * To start executing the created
coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is
invoked when coroutine completes with result or exception.\n *\n * This function returns
unintercepted continuation.\n * Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack
without going through the\n * [ContinuationInterceptor] that might be present in the completion's
[CoroutineContext].\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\n *
Note that [completion] of this function may get invoked in an arbitrary context.\n *\n * [Continuation.intercepted]
can be used to acquire the intercepted continuation.\n * Invocation of `resume(Unit)` on intercepted continuation
guarantees that execution of\n * both the coroutine and [completion] happens in the invocation context established
by\n * [ContinuationInterceptor].\n *\n * Repeated invocation of any resume function on the resulting continuation
corrupts the\n * state machine of the coroutine and may result in arbitrary behaviour or exception.\n
*\n@SinceKotlin("1.3")\npublic actual fun <R, T> (suspend R.() -> T).createCoroutineUnintercepted(\n
  receiver: R,\n  completion: Continuation<T>\n): Continuation<Unit> =\n // Kotlin/JS suspend lambdas have an
extra parameter `suspended`\n  if (this.asDynamic().length == 3) {\n // When `suspended` is true the
continuation is created, but not executed\n    this.asDynamic()(receiver, completion, true)\n  } else {\n
createCoroutineFromSuspendFunction(completion) {\n    this.asDynamic()(receiver, completion)\n  }\n

```

```

}
}

/**
 * Intercepts this continuation with [ContinuationInterceptor].
 * This function shall be used on the
 immediate result of [createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn],
 in which
 case it checks for [ContinuationInterceptor] in the continuation's [context][Continuation.context],
 invokes
 [ContinuationInterceptor.interceptContinuation], caches and returns the result.
 * If this function is invoked on
 other [Continuation] instances it returns `this` continuation unchanged.
 *
 * @SinceKotlin("1.3")
 * public
 actual fun <T> Continuation<T>.intercepted(): Continuation<T> =
 (this as? CoroutineImpl)?.intercepted() ?:
 this

private inline fun <T> createCoroutineFromSuspendFunction(
 completion: Continuation<T>,
 crossinline block: () -> Any?): Continuation<Unit> {
 @Suppress("UNCHECKED_CAST")
 return object
 : CoroutineImpl(completion as Continuation<Any?>) {
 override fun doResume(): Any? {
 exception?.let { throw it }
 return block()
 }
 }
}

/**
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 and Kotlin Programming Language contributors.
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 that can be found in the license/LICENSE.txt file.
 *
 * package kotlin.js
 * // Mirrors signature from JS IR
 BE
 // Used for
 js.translator/testData/box/number/mulInt32.kt
 @library
 @JsName("imulEmulated")
 @Suppress("UNUSED_PARAMETER")
 internal fun imul(x: Int, y: Int): Int =
 definedExternally

@Suppress("NOTHING_TO_INLINE")
internal
inline fun isArrayish(o: dynamic) = js("Kotlin").isArrayish(o)

/**
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 Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that
 can be found in the license/LICENSE.txt file.
 *
 * package kotlin
 * // NOTE: Do not author your exceptions as
 they are written in this file, instead use this template:
 *
 * public open class MyException : Exception {
 constructor() : super()
 constructor(message: String?) : super(message)
 constructor(message: String?, cause:
 Throwable?) : super(message, cause)
 constructor(cause: Throwable?) : super(cause)
}

// TODO:
remove primary constructors, make all secondary KT-
22055

@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")
public actual open class Error actual
constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {
 actual constructor() :
 this(null,
 null)
 actual constructor(message: String?) : this(message, null)
 actual constructor(cause: Throwable?) :
 this(undefi
ned, cause)
}

@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")
public actual open class
Exception actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {
 actual
constructor() : this(null, null)
 actual constructor(message: String?) : this(message, null)
 actual
constructor(cause: Throwable?) : this(undefi
ned, cause)
}

public actual open class RuntimeException actual
constructor(message: String?, cause: Throwable?) : Exception(message, cause) {
 actual constructor() : this(null,
 null)
 actual constructor(message: String?) : this(message, null)
 actual constructor(cause: Throwable?) :
 this(undefi
ned, cause)
}

public actual open class IllegalArgumentException actual constructor(message:
String?, cause: Throwable?) : RuntimeException(message, cause) {
 actual constructor() : this(null, null)
 actual
constructor(message: String?) : this(message, null)
 actual constructor(cause: Throwable?) :
this(undefi
ned, cause)
}

public actual open class IllegalStateException actual constructor(message: String?,
cause: Throwable?) : RuntimeException(message, cause) {
 actual constructor() : this(null, null)
 actual
constructor(message: String?) : this(message, null)
 actual constructor(cause: Throwable?) : this(undefi
ned,
cause)
}

public actual open class IndexOutOfBoundsException actual constructor(message: String?) :
RuntimeException(message) {
 actual constructor() : this(null)
}

public actual open class
ConcurrentModificationException actual constructor(message: String?, cause: Throwable?) :
RuntimeException(message, cause) {
 actual constructor() : this(null, null)
 actual constructor(message:
String?) : this(message, null)
 actual constructor(cause: Throwable?) : this(undefi
ned, cause)
}

public actual
open class UnsupportedOperationException
 actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {
 actual
constructor() : this(null, null)
 actual constructor(message: String?) : this(message, null)
 actual
constructor(cause: Throwable?) : this(undefi
ned, cause)
}

public actual open class NumberFormatException

```

```

actual constructor(message: String?) : IllegalArgumentException(message) {\n  actual constructor() :
this(null)\n}\n\npublic actual open class NullPointerException actual constructor(message: String?) :
RuntimeException(message) {\n  actual constructor() : this(null)\n}\n\npublic actual open class
ClassCastException actual constructor(message: String?) : RuntimeException(message) {\n  actual constructor() :
this(null)\n}\n\npublic actual open class AssertionError\n@SinceKotlin("1.4")\nconstructor(message: String?,
cause: Throwable?) : Error(message, cause) {\n  actual constructor() : this(null)\n  constructor(message: String?) :
this(message,
null)\n  actual constructor(message: Any?) : this(message.toString(), message as? Throwable)\n}\n\npublic actual
open class NoSuchElementException actual constructor(message: String?) : RuntimeException(message) {\n
actual constructor() : this(null)\n}\n\n@SinceKotlin("1.3")\npublic actual open class ArithmeticException actual
constructor(message: String?) : RuntimeException(message) {\n  actual constructor() : this(null)\n}\n\npublic
actual open class NoWhenBranchMatchedException actual constructor(message: String?, cause: Throwable?) :
RuntimeException(message, cause) {\n  actual constructor() : this(null, null)\n  actual constructor(message:
String?) : this(message, null)\n  actual constructor(cause: Throwable?) : this(undefiend, cause)\n}\n\npublic actual
open class UninitializedPropertyAccessException actual constructor(message: String?, cause: Throwable?) :
RuntimeException(message, cause) {\n  actual constructor() : this(null, null)\n  actual constructor(message:
String?) : this(message, null)\n  actual constructor(cause: Throwable?) : this(undefiend, cause)\n}\n\n"/*\n *
Copyright 2010-2019 JetBrains s.r.o. Use of this source code is governed by the Apache 2.0 license\n * that can be
found in the license/LICENSE.txt file.\n */\n\n@file:Suppress("UNUSED_PARAMETER")\n\npackage
kotlin.js\n\n@kotlin.internal.InlineOnly\ninternal inline fun jsDeleteProperty(obj: Any, property: Any) {\n
js("delete obj[property]")\n}\n\n@kotlin.internal.InlineOnly\ninternal inline fun jsBitwiseOr(lhs: Any?, rhs:
Any?): Int =\n  js("lhs | rhs").unsafeCast<Int>()\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.math\n\n/**\n * Returns this value with the sign bit
same as of the [sign] value.\n * If [sign] is `NaN` the sign of the result is undefiend.\n
*/\n\n@SinceKotlin("1.2")\npublic
actual fun Double.withSign(sign: Double): Double {\n  val thisSignBit =
js("Kotlin").doubleSignBit(this).unsafeCast<Int>()\n  val newSignBit =
js("Kotlin").doubleSignBit(sign).unsafeCast<Int>()\n  return if (thisSignBit == newSignBit) this else -
this\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n *
according to the IEEE 754 floating-point "double format" bit layout.\n
*/\n\n@SinceKotlin("1.2")\n@library("doubleToBits")\npublic actual fun Double.toBits(): Long =
definedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n *
according to the IEEE 754 floating-point "double format" bit layout,\n * preserving `NaN` values exact layout.\n
*/\n\n@SinceKotlin("1.2")\n@library("doubleToRawBits")\npublic actual fun Double.toRawBits(): Long =
definedExternally\n\n/**\n * Returns the [Double] value corresponding to a given bit representation.\n
*/\n\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual inline fun Double.Companion.fromBits(bits:
Long): Double = js("Kotlin").doubleFromBits(bits).unsafeCast<Double>()\n\n/**\n * Returns a bit representation
of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point "single format" bit
layout.\n * Note that in Kotlin/JS [Float] range is wider than "single format" bit layout can represent,\n * so
some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n
*/\n\n@SinceKotlin("1.2")\n@library("floatToBits")\npublic actual fun Float.toBits(): Int =
definedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Int]\n * according
to the IEEE
754 floating-point "single format" bit layout,\n * preserving `NaN` values exact layout.\n */\n\n * Note that in
Kotlin/JS [Float] range is wider than "single format" bit layout can represent,\n * so some [Float] values may

```

```

overflow, underflow or loose their accuracy after conversion to bits and back.\n
*\n@SinceKotlin("1.2")\n@library("floatToRawBits")\npublic actual fun Float.toRawBits(): Int =
definedExternally\n\n/**\n * Returns the [Float] value corresponding to a given bit representation.\n
*\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual inline fun Float.Companion.fromBits(bits:
Int): Float =
js("Kotlin").floatFromBits(bits).unsafeCast<Float>()\n\n@Suppress("NOTHING_TO_INLINE")\ninternal
inline fun Long(low: Int, high: Int) = js("Kotlin").Long.fromBits(low, high).unsafeCast<Long>()\ninternal inline
val Long.low: Int get() = this.asDynamic().getLowBits().unsafeCast<Int>()\ninternal inline val Long.high: Int get()
= this.asDynamic().getHighBits().unsafeCast<Int>()\n",/>\n
* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nimport
kotlin.reflect.KClass\n\n@PublishedApi\ninternal fun <T : Annotation>
KClass<*>.findAssociatedObject(@Suppress("UNUSED_PARAMETER") annotationClass: KClass<T>): Any?
{\n // This API is not supported in js-v1. Return `null` to be source-compatible with js-ir.\n return
null}\n",/>\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Long] value in the specified [radix].\n
*\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n
*\n@SinceKotlin("1.2")\npublic
actual fun Long.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))",/>\n * Copyright 2010-
2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/\n//
NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.js.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Reverses elements in the list in-place.\n */\npublic
actual fun <T> MutableList<T>.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var
reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] =
this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n",/>\n * Copyright 2010-2020
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and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/\n// NOTE: THIS FILE IS
AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.js.*\n\n/**\n * Returns a
character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char
sequence.\n */\n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun
CharSequence.elementAt(index: Int): Char {\n return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, length: $length")} }\n}\n",/>\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/\n//
NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.js.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws
an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n * @sample
samples.collections.Collections.Elements.elementAt\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.elementAt(index: Int):
UInt {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")} }\n}\n",/>\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n */\n * @sample samples.collections.Collections.Elements.elementAt\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.elementAt(index: Int):
ULong {\n
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size}")
}\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.elementAt(index: Int):
UByte {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")
}\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.elementAt(index: Int):
UShort {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")
}\n}\n\n/**\n * Returns a [List]
that wraps the original array.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun
UIntArray.asList(): List<UInt> {\n    return object : AbstractList<UInt>(), RandomAccess {\n        override val size:
Int get() = this@asList.size\n        override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun
contains(element: UInt): Boolean = this@asList.contains(element)\n        override fun get(index: Int): UInt {\n
AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n        override fun
indexOf(element: UInt): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is UInt)
return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: UInt): Int
{\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is UInt) return -1\n            return
this@asList.lastIndexOf(element)\n        }\n    }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.asList(): List<ULong>
{\n    return object : AbstractList<ULong>(), RandomAccess {\n        override val size: Int get() = this@asList.size\n
        override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun contains(element: ULong):
Boolean = this@asList.contains(element)\n        override fun get(index: Int): ULong {\n
AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n        override fun
indexOf(element: ULong): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is
ULong) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element:
ULong): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is ULong) return -1\n
            return this@asList.lastIndexOf(element)\n        }\n    }\n}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.asList(): List<UByte>
{\n    return object : AbstractList<UByte>(), RandomAccess {\n        override val size: Int get() = this@asList.size\n
        override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun contains(element: UByte): Boolean
= this@asList.contains(element)\n        override fun get(index: Int): UByte {\n
AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n        override fun
indexOf(element: UByte): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is
UByte) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element:
UByte): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is UByte) return -1\n
            return this@asList.lastIndexOf(element)\n        }\n    }\n}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.asList(): List<UShort>
{\n    return object : AbstractList<UShort>(), RandomAccess {\n        override val size: Int get() = this@asList.size\n
        override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun contains(element: UShort):
Boolean = this@asList.contains(element)\n        override fun get(index: Int): UShort {\n
AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n        override fun
indexOf(element: UShort): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is
UShort) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element:
UShort): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is UShort) return -1\n
            return this@asList.lastIndexOf(element)\n        }\n    }\n}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n

```

```

UShort) return -1\n        return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element:
UShort): Int {\n        @Suppress(\\"USELESS_CAST\")\n        if ((element as Any?) !is
UShort) return -1\n        return this@asList.lastIndexOf(element)\n        }\n    }\n}\n\n"/*\n * Copyright 2010-
2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:
Suppress(\\"DEPRECATION_ERROR\")\npackage jquery.ui\n\n\n//jquery UI\nimport jquery.JQuery\nimport
kotlin.js.Json\n\n@Deprecated(\\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery'
package instead.\", level = DeprecationLevel.ERROR)\npublic inline fun JQuery.buttonset(): JQuery =
asDynamic().buttonset()\n\n@Deprecated(\\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-
jquery' package instead.\", level = DeprecationLevel.ERROR)\npublic inline fun JQuery.dialog(): JQuery =
asDynamic().dialog()\n\n@Deprecated(\\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-
jquery' package instead.\", level = DeprecationLevel.ERROR)\npublic
inline fun JQuery.dialog(params: Json): JQuery = asDynamic().dialog(params)\n\n@Deprecated(\\"Use declarations
from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\", level =
DeprecationLevel.ERROR)\npublic inline fun JQuery.dialog(mode: String, param: String): Any? =
asDynamic().dialog(mode, param)\n\n@Deprecated(\\"Use declarations from 'https://bintray.com/kotlin/js-
externals/kotlin-js-jquery' package instead.\", level = DeprecationLevel.ERROR)\npublic inline fun
JQuery.dialog(mode: String): JQuery = asDynamic().dialog(mode)\n\n@Deprecated(\\"Use declarations from
'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\", level =
DeprecationLevel.ERROR)\npublic inline fun JQuery.dialog(mode: String, param: String, value: Any?): JQuery =
asDynamic().dialog(mode, param, value)\n\n@Deprecated(\\"Use declarations from 'https://bintray.com/kotlin/js-
externals/kotlin-js-jquery' package instead.\", level = DeprecationLevel.ERROR)\npublic
inline fun JQuery.button(): JQuery = asDynamic().button()\n\n@Deprecated(\\"Use declarations from
'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\", level =
DeprecationLevel.ERROR)\npublic inline fun JQuery.accordion(): JQuery =
asDynamic().accordion()\n\n@Deprecated(\\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-
jquery' package instead.\", level = DeprecationLevel.ERROR)\npublic inline fun JQuery.draggable(params: Json):
JQuery = asDynamic().draggable(params)\n\n@Deprecated(\\"Use declarations from 'https://bintray.com/kotlin/js-
externals/kotlin-js-jquery' package instead.\", level = DeprecationLevel.ERROR)\npublic inline fun
JQuery.selectable(): JQuery = asDynamic().selectable()\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\npublic
actual fun interface Comparator<T> {\n    @JsName(\\"compare\")\n    public actual fun compare(a: T, b: T):
Int\n}\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.js\n\nimport
kotlin.annotation.AnnotationTarget.*\n\n\n@Target(FUNCTION)\n\n@Deprecated(\\"Use inline extension function with
body using dynamic\")\npublic annotation class nativeGetter\n\n\n@Target(FUNCTION)\n\n@Deprecated(\\"Use inline
extension function with body using dynamic\")\npublic annotation class
nativeSetter\n\n\n@Target(FUNCTION)\n\n@Deprecated(\\"Use inline extension function with body using
dynamic\")\npublic annotation class nativeInvoke\n\n\n@Target(CLASS, FUNCTION, PROPERTY)\n\ninternal
annotation class library(public val name: String = \\\")\n\n\n@Target(CLASS)\n\ninternal annotation class
marker\n\n\n/*\n * Gives a declaration (a function,
a property or a class) specific name in JavaScript.\n * This may be useful in the following cases:\n * This
* There are two functions for which the compiler gives same name in JavaScript, you can\n * mark one with
`@JsName(...)` to prevent the compiler from reporting error.\n * * You are writing a JavaScript library in Kotlin.
The compiler produces mangled names\n * for functions with parameters, which is unnatural for usual JavaScript
developer.\n * You can put `@JsName(...)` on functions you want to be available from JavaScript.\n * * For

```

some reason you want to rename declaration, e.g. there's common term in JavaScript for a concept provided by the declaration, which is uncommon in Kotlin.

**Example:**

```
kotlin
class Person(val name: String) {
    fun hello() {
        println("Hello $name!")
    }
}

@JsName("helloWithGreeting")
fun hello(greeting: String) {
    println("$greeting $name!")
}

```

`@property` name the name which compiler uses both for declaration itself and for all references to the declaration. It's required to denote a valid JavaScript identifier.

**@Retention(AnnotationRetention.BINARY)@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY\_GETTER, PROPERTY\_SETTER)** public actual annotation class `JsName`(actual val name: String)

Denotes an `external` declaration that must be imported from native JavaScript library. The compiler produces the code relevant for the target module system, for example, in case of CommonJS, it will import the declaration via the `require(...)` function. The annotation can be used on top-level external declarations (classes, properties, functions) and files. In case of file (which can't be `external`) the following rule applies: all the declarations in the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object that contains all the declarations from the file.

**Example:**

```
kotlin
@JsModule("jquery")
external abstract class JQuery() {
    // some declarations here
}

@JsModule("jquery")
external fun JQuery(element: Element): JQuery

```

`@property` import name of a module to import declaration from. It is not interpreted by the Kotlin compiler, it's passed as is directly to the target module system. @see `JsNonModule`

**@Retention(AnnotationRetention.BINARY)@Target(CLASS, PROPERTY, FUNCTION, FILE)** public annotation class `JsModule`(val import: String)

Denotes an `external` declaration that can be used without module system. By default, an `external` declaration is available regardless of your target module system. However, by applying `[JsModule]` annotation you can make a declaration unavailable to `plain` module system. Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available as an npm package. To tell the Kotlin compiler to accept both cases, you can augment `[JsModule]` with the `@JsNonModule` annotation.

For example:

```
kotlin
@JsModule("jquery")
@JsNonModule
@JsName("$")
external abstract class JQuery() {
    // some declarations here
}

@JsModule("jquery")
@JsNonModule
@JsName("$")
external fun JQuery(element: Element): JQuery

```

@see `JsModule`

**@Retention(AnnotationRetention.BINARY)@Target(CLASS, PROPERTY, FUNCTION, FILE)** public annotation class `JsNonModule`

Adds prefix to `external` declarations in a source file. JavaScript does not have concept of packages (namespaces). They are usually emulated by nested objects. The compiler turns references to `external` declarations either to plain unprefix names (in case of `plain` modules) or to plain imports.

However, if a JavaScript library provides its declarations in packages, you won't be satisfied with this. You can tell the compiler to generate additional prefix before references to `external` declarations using the `@JsQualifier(...)` annotation. Note that a file marked with the `@JsQualifier(...)` annotation can't contain non-`external` declarations.

**Example:**

```

@file:JsQualifier("my.jsPackageName")
package some.kotlinPackage
external fun foo(x: Int)
external fun bar(): String

```

`@property` value the qualifier to add to the declarations in the generated code. It must be a sequence of valid JavaScript identifiers separated by the ``.` character. Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.$.f`.

@see `JsModule`

**@Retention(AnnotationRetention.BINARY)@Target(AnnotationTarget.FILE)** public annotation class `JsQualifier`(val value: String)

Exports top-level declaration on JS platform. Compiled module exposes declarations that are marked with this annotation without name mangling. This annotation can be applied to either files or top-level declarations. It is currently prohibited to export the following kinds of declarations:

- `expect` declarations
- inline functions with reified type parameters
- suspend functions
- secondary constructors without `@JsName`

\* \* extension properties\n \* \* enum classes\n \* \* annotation classes\n \* \* Signatures of exported declarations must only contain \"exportable\" types:\n \* \* `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`\n \* \* `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n \* \* `Array<exportable-type>`\n \* \* Function types with exportable parameters and return types\n \* \* `external` or `@JsExport` classes and interfaces\n \* \* Nullable counterparts of types above\n \* \* Unit return type. Must not be nullable\n \* \* This annotation is experimental, meaning that restrictions mentioned above are subject to change.\n

```
*/\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\n@SinceKotlin(\"1.3\")\npublic actual annotation class JsExport\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.jvm\n\n// these are used in common generated code in stdlib\n\n// TODO: find how to deprecate these
```

```
ones\n\n@Target(AnnotationTarget.FIELD)\n@Retention(AnnotationRetention.SOURCE)\npublic actual annotation class Volatile\n\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)\n@Retention(AnnotationRetention.SOURCE)\npublic actual annotation class Synchronized\n"/*\n * Copyright
```

```
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
```

```
kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableCollection] interface.\n * *\n * @param E the type of elements contained in the collection. The collection is invariant in its element type.\n */\n\npublic actual abstract class AbstractMutableCollection<E> protected actual constructor() :
```

```
AbstractCollection<E>(), MutableCollection<E> {\n\n    actual abstract override fun add(element: E): Boolean\n\n    actual override fun remove(element: E): Boolean {\n        checkIsMutable()\n        val iterator = iterator()\n        while (iterator.hasNext()) {\n            if (iterator.next() == element) {\n                iterator.remove()\n                return true\n            }\n        }\n        return false\n    }\n\n    actual override fun addAll(elements: Collection<E>): Boolean {\n        checkIsMutable()\n        var modified = false\n        for (element in elements) {\n            if (add(element)) modified = true\n        }\n        return modified\n    }\n\n    actual override fun removeAll(elements: Collection<E>): Boolean {\n        checkIsMutable()\n        return (this as MutableIterable<E>).removeAll { it in elements }\n    }\n\n    actual override fun retainAll(elements: Collection<E>): Boolean {\n        checkIsMutable()\n        return (this as MutableIterable<E>).removeAll { it !in elements }\n    }\n\n    actual override fun clear(): Unit {\n        checkIsMutable()\n        val iterator = this.iterator()\n        while (iterator.hasNext()) {\n            iterator.next()\n            iterator.remove()\n        }\n    }\n}
```

```
@JsName(\"toJSON\")\nopen fun toJSON(): Any = this.toArray()\n\n/**\n * This method is called every time when a mutating method is called on this mutable collection.\n * * Mutable collections that are built (frozen) must throw `UnsupportedOperationException`.\n */\n\ninternal open fun checkIsMutable(): Unit { }\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nBased on GWT AbstractList\n * Copyright 2007 Google
```

```
Inc.\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableList] interface.\n * *\n * @param E the type of elements contained in the list. The list is invariant in its element type.\n */\n\npublic actual abstract class AbstractMutableList<E> protected actual constructor() :
```

```
AbstractMutableCollection<E>(), MutableList<E> {\n    protected var modCount: Int = 0\n\n    abstract override fun add(index: Int, element: E): Unit\n\n    abstract override fun removeAt(index: Int): E\n\n    abstract override fun set(index: Int, element: E): E\n}
```

```
/**\n * Adds the specified element to the end of this list.\n * *\n * @return `true` because the list is always modified as the result of this operation.\n */\n\nactual override fun add(element: E): Boolean {\n    checkIsMutable()\n    add(size, element)\n    return true\n }\n\nactual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n    checkIsMutable()\n    var _index = index\n    var changed = false\n}
```





```

=== other) return true\n
        if (other !is Collection<*>) return false\n
        return
AbstractList.orderedEquals(this, other)\n
        }\n\n
        override fun hashCode(): Int =
AbstractList.orderedHashCode(this)\n\n
        override fun checkIsMutable(): Unit =
this@AbstractMutableMap.checkIsMutable()\n
        }\n
        }\n
        return _values!!\n
        }\n\n
actual
override fun remove(key: K): V? {\n
    checkIsMutable()\n
    val iter = entries.iterator()\n
    while
(iter.hasNext()) {\n
        val entry = iter.next()\n
        val k = entry.key\n
        if (key == k) {\n
            val
value = entry.value\n
            iter.remove()\n
            return value\n
        }\n
    }\n
    return null\n
}\n\n
/**\n
 * This method is called every time
when a mutating method is called on this mutable map.\n
 * Mutable maps that are built (frozen) must throw
`UnsupportedOperationException`.\n
 */\n
internal open fun checkIsMutable(): Unit {\n
}\n\n
"/*\n
 * Copyright
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
 * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
 */\n
package
kotlin.collections\n\n
/**\n
 * Provides a skeletal implementation of the [MutableSet] interface.\n
 */\n
 * @param E the
type of elements contained in the set. The set is invariant in its element type.\n
 */\n
public actual abstract class
AbstractMutableSet<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableSet<E> {\n\n
/**\n
 * Compares this set with another set instance with the unordered structural
equality.\n
 * @return `true`, if [other] instance is a [Set] of the same size, all elements of which are
contained in this set.\n
 */\n
override fun equals(other: Any?): Boolean {\n
    if (other === this) return true\n
    if (other !is Set<*>) return false\n
    return AbstractSet.setEquals(this, other)\n
}\n\n
/**\n
 * Returns the
hash code value for this set.\n
 */\n
override fun hashCode(): Int =
AbstractSet.unorderedHashCode(this)\n\n
"/*\n
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n
 * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
 */\n
package kotlin.collections\n\n
/**\n
 * Provides a [MutableList] implementation,
which uses a resizable array as its backing storage.\n
 */\n
 * This implementation doesn't provide a way to manage
capacity, as backing JS array is resizable itself.\n
 * There is no speed advantage to pre-allocating
array sizes in JavaScript, so this implementation does not include any of the\n
 * capacity and "growth increment"
concepts.\n
 */\n
public actual open class ArrayList<E> internal constructor(private var array: Array<Any?>) :
AbstractMutableList<E>(), MutableList<E>, RandomAccess {\n
    private var isReadOnly: Boolean = false\n\n
/**\n
 * Creates an empty [ArrayList].\n
 */\n
    public actual constructor() : this(emptyArray()) {\n\n
/**\n
 * Creates an empty [ArrayList].\n
 * @param initialCapacity initial capacity (ignored)\n
 */\n
    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n
    public actual
constructor(initialCapacity: Int = 0) : this(emptyArray()) {\n\n
/**\n
 * Creates an [ArrayList] filled from the
[elements] collection.\n
 */\n
    public actual constructor(elements: Collection<E>) :
this(elements.toArray<Any?>()) {\n\n
    @PublishedApi\n
    internal fun build(): List<E> {\n
        checkIsMutable()\n
        isReadOnly = true\n
        return this\n
    }\n\n
/** Does nothing in this ArrayList implementation. */\n
    public actual fun trimToSize()
{\n\n
/** Does nothing in this ArrayList implementation. */\n
    public actual fun ensureCapacity(minCapacity:
Int) {\n\n
actual\n
override val size: Int get() = array.size\n
    @Suppress("UNCHECKED_CAST")\n
actual\n
override fun get(index: Int): E = array[rangeCheck(index)] as E\n
actual\n
override fun set(index: Int, element: E): E
{\n
    checkIsMutable()\n
    rangeCheck(index)\n
    @Suppress("UNCHECKED_CAST")\n
    return
array[index].apply { array[index] = element } as E\n
}\n\n
actual\n
override fun add(element: E): Boolean {\n
    checkIsMutable()\n
    array.asDynamic().push(element)\n
    modCount++\n
    return true\n
}\n\n
actual\n
override fun add(index: Int, element: E): Unit {\n
    checkIsMutable()\n
    array.asDynamic().splice(insertionRangeCheck(index), 0, element)\n
    modCount++\n
}\n\n
actual\n
override fun addAll(elements: Collection<E>): Boolean {\n
    checkIsMutable()\n
    if
(elements.isEmpty()) return false\n
    array += elements.toArray<Any?>()\n
    modCount++\n
    return true\n
}\n\n
actual\n
override fun addAll(index: Int, elements: Collection<E>): Boolean {\n
    checkIsMutable()\n
    insertionRangeCheck(index)\n
    if (index == size) return addAll(elements)\n
    if

```

```

(elements.isEmpty()) return false\n    when (index) {\n        size -> return addAll(elements)\n        0 -> array
= elements.toArray<Any?>() + array\n        else -> array = array.copyOfRange(0,
index).asDynamic().concat(elements.toArray<Any?>(), array.copyOfRange(index, size))\n    }\n\n
modCount++\n    return true\n }\n\n actual override fun removeAt(index: Int): E {\n    checkIsMutable()\n
rangeCheck(index)\n    modCount++\n    return if (index == lastIndex)\n        array.asDynamic().pop()\n
else\n    array.asDynamic().splice(index, 1)[0]\n }\n\n actual override fun remove(element: E):
Boolean {\n    checkIsMutable()\n    for (index in array.indices) {\n        if (array[index] == element) {\n
array.asDynamic().splice(index, 1)\n            modCount++\n            return true\n        }\n    }\n
return false\n }\n\n override fun removeRange(fromIndex: Int, toIndex: Int) {\n    checkIsMutable()\n
modCount++\n    array.asDynamic().splice(fromIndex, toIndex - fromIndex)\n }\n\n actual override fun
clear() {\n    checkIsMutable()\n    array = emptyArray()\n    modCount++\n }\n\n\n actual override fun
indexOf(element: E): Int = array.indexOf(element)\n\n actual override fun lastIndexOf(element: E): Int =
array.lastIndexOf(element)\n\n override fun toString() = arrayToString(array)\n\n override fun toArray():
Array<Any?> = js("{}").slice.call(array)\n\n\n
    internal override fun checkIsMutable() {\n        if (isReadOnly) throw UnsupportedOperationException()\n
}\n\n private fun rangeCheck(index: Int) = index.apply {\n    AbstractList.checkElementIndex(index, size)\n
}\n\n private fun insertionRangeCheck(index: Int) = index.apply {\n    AbstractList.checkPositionIndex(index,
size)\n }\n\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.collections\n\ninternal fun <T> sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int)
{\n    if (getStableSortingIsSupported()) {\n        array.asDynamic().sort(comparison)\n    } else {\n
mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparator(comparison))\n    }\n}\n\ninternal fun
<T> sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {\n
    if (getStableSortingIsSupported()) {\n        val comparison = { a: T, b: T -> comparator.compare(a, b) }\n
array.asDynamic().sort(comparison)\n    } else {\n        mergeSort(array.unsafeCast<Array<T>>(), 0,
array.lastIndex, comparator)\n    }\n}\n\ninternal fun <T> sortArrayWith(array: Array<out T>, fromIndex: Int,
toIndex: Int, comparator: Comparator<in T>) {\n    if (fromIndex < toIndex - 1) {\n
mergeSort(array.unsafeCast<Array<T>>(), fromIndex, toIndex - 1, comparator)\n    }\n}\n\ninternal fun <T>
Comparable<T>> sortArray(array: Array<out T>) {\n    if (getStableSortingIsSupported()) {\n        val comparison =
{ a: T, b: T -> a.compareTo(b) }\n        array.asDynamic().sort(comparison)\n    } else {\n
mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, naturalOrder())\n    }\n}\n\nprivate var
_stableSortingIsSupported: Boolean? = null\nprivate fun getStableSortingIsSupported(): Boolean {\n
    _stableSortingIsSupported?.let { return it }\n    _stableSortingIsSupported
= false\n\n    val array = js("{}").unsafeCast<Array<Int>>()\n    // known implementations may use stable sort for
arrays of up to 512 elements\n    // so we create slightly more elements to test stability\n    for (index in 0 until 600)
array.asDynamic().push(index)\n    val comparison = { a: Int, b: Int -> (a and 3) - (b and 3) }\n
array.asDynamic().sort(comparison)\n    for (index in 1 until array.size) {\n        val a = array[index - 1]\n        val b
= array[index]\n        if ((a and 3) == (b and 3) && a >= b) return false\n    }\n    _stableSortingIsSupported = true\n
return true\n}\n\nprivate fun <T> mergeSort(array: Array<T>, start: Int, endInclusive: Int, comparator:
Comparator<in T>) {\n    val buffer = arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()\n    val result =
mergeSort(array, buffer, start, endInclusive, comparator)\n    if (result !== array) {\n        for (i in start..endInclusive)
array[i] = result[i]\n    }\n}\n\n// Both
start and end are inclusive indices.\nprivate fun <T> mergeSort(array: Array<T>, buffer: Array<T>, start: Int, end:
Int, comparator: Comparator<in T>): Array<T> {\n    if (start == end) {\n        return array\n    }\n\n    val median =
(start + end) / 2\n    val left = mergeSort(array, buffer, start, median, comparator)\n    val right = mergeSort(array,
buffer, median + 1, end, comparator)\n    val target = if (left === buffer) array else buffer\n\n    // Merge.\n    var
leftIndex = start\n    var rightIndex = median + 1\n    for (i in start..end) {\n        when {\n            leftIndex <=
median && rightIndex <= end -> {\n                val leftValue = left[leftIndex]\n                val rightValue =

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right[rightIndex]\n\n        if (comparator.compare(leftValue, rightValue) <= 0) {\n            target[i] =
leftValue\n                leftIndex++\n        } else {\n            target[i] = rightValue\nrightIndex++\n        }\n    }\n    leftIndex <= median -> {\n        target[i] = left[leftIndex]\n        leftIndex++\n    }\n    else /* rightIndex <= end */ -> {\n        target[i] = right[rightIndex]\n        rightIndex++\n    }\n    Unit // TODO: Fix KT-31506\n}\n}\n}\n}\nreturn target\n}", "/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.collections\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@kotlin.js.JsName("\ncontentDeepHashCodeImpl")\ninternal fun <T> Array<out T>?.contentDeepHashCodeImpl(): Int {\n    if (this ==
null) return 0\n    var result = 1\n    for (element in this) {\n        val elementHash = when {\n            element == null
-> 0\n            isArrayish(element) -> (element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()\n            element is UByteArray -> element.contentHashCode()\n            element is UShortArray ->
element.contentHashCode()\n            element is UIntArray -> element.contentHashCode()\n            element is
ULongArray -> element.contentHashCode()\n            else -> element.hashCode()\n        }\n        result = 31 * result + elementHash\n    }\n    return result\n}", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal interface
EqualityComparator {\n    /*\n     * Subclasses must override to return a value indicating\n     * whether or not two
keys or values are equal.\n     */\n    abstract fun equals(value1: Any?, value2: Any?): Boolean\n\n    /*\n     *
Subclasses must override to return the hash
code of a given key.\n     */\n    abstract fun getHashCode(value: Any?): Int\n\n    object HashCode :
EqualityComparator {\n        override fun equals(value1: Any?, value2: Any?): Boolean = value1 == value2\n\n        override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0\n    }\n}", "/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/*\n * Based on GWT
AbstractHashMap\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport
kotlin.collections.MutableMap.MutableEntry\n\n/*\n * Hash table based implementation of the [MutableMap]
interface.\n * This implementation makes no guarantees regarding the order of enumeration of [keys], [values]
and [entries] collections.\n */\n\n// Classes that extend HashMap and implement `build()` (freezing) operation\n// have
to make sure mutating methods check
`checkIsMutable`.\n\npublic actual open class HashMap<K, V> : AbstractMutableMap<K, V>, MutableMap<K, V>
{\n\n    private inner class EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {\n\n        override fun
add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException("Add is not supported on
entries")\n\n        override fun clear() {\n            this@HashMap.clear()\n        }\n\n        override operator fun
contains(element: MutableEntry<K, V>): Boolean = containsEntry(element)\n\n        override operator fun iterator():
MutableIterator<MutableEntry<K, V>> = internalMap.iterator()\n\n        override fun remove(element:
MutableEntry<K, V>): Boolean {\n            if (contains(element)) {\n                this@HashMap.remove(element.key)\n                return true\n            }\n            return false\n        }\n\n        override
val size: Int get() = this@HashMap.size\n    }\n\n    /*\n     * Internal implementation of the map: either string-
based
or hashcode-based.\n     */\n    private val internalMap: InternalMap<K, V>\n\n    private val equality:
EqualityComparator\n\n    internal constructor(internalMap: InternalMap<K, V>) : super() {\n        this.internalMap
= internalMap\n        this.equality = internalMap.equality\n    }\n\n    /*\n     * Constructs an empty [HashMap]
instance.\n     */\n    actual constructor() : this(InternalHashCodeMap(EqualityComparator.HashCode))\n\n    /*\n     *
Constructs an empty [HashMap] instance.\n     */\n    @param initialCapacity the initial capacity (ignored)\n    @param loadFactor the load factor (ignored)\n    * @throws IllegalArgumentException if the initial
capacity or load factor are negative\n    */

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@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n actual constructor(initialCapacity:
Int, loadFactor: Float = 0.0f) : this() {\n // This implementation of HashMap has no need of load factors or
capacities.\n require(initialCapacity
>= 0) { \"Negative initial capacity: $initialCapacity\" }\n require(loadFactor >= 0) { \"Non-positive load factor:
$loadFactor\" }\n }\n\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n /**\n *
Constructs an instance of [HashMap] filled with the contents of the specified [original] map.\n *\n actual
constructor(original: Map<out K, V>) : this() {\n this.putAll(original)\n }\n\n actual override fun clear() {\n
internalMap.clear()\n// structureChanged(this)\n }\n\n actual override fun containsKey(key: K): Boolean
= internalMap.containsKey()\n\n actual override fun containsValue(value: V): Boolean = internalMap.any {
equality.equals(it.value, value) }\n\n private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>? =
null\n actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n get() {\n if
(_entries == null) {\n _entries = createEntrySet()\n
}\n return _entries!!\n }\n\n protected open fun createEntrySet():
MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n actual override operator fun get(key: K): V? =
internalMap.get(key)\n\n actual override fun put(key: K, value: V): V? = internalMap.put(key, value)\n\n actual
override fun remove(key: K): V? = internalMap.remove(key)\n\n actual override val size: Int get() =
internalMap.size\n}\n\n/**\n * Constructs the specialized implementation of [HashMap] with [String] keys, which
stores the keys as properties of\n * JS object without hashing them.\n *\n\npublic fun <V> stringMapOf(vararg pairs:
Pair<String, V>): HashMap<String, V> {\n return HashMap<String,
V>(InternalStringMap(EqualityComparator.HashCode)).apply { putAll(pairs) }\n}, \"/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt
file.\n *\n\n * Based on GWT HashSet\n * Copyright 2008 Google Inc.\n *\n\npackage
kotlin.collections\n\n/**\n * The implementation of the [MutableSet] interface, backed by a [HashMap] instance.\n
*\n\n// Classes that extend HashSet and implement `build()` (freezing) operation\n// have to make sure mutating
methods check `checkIsMutable`.\n\npublic actual open class HashSet<E> : AbstractMutableSet<E>, MutableSet<E>
{\n\n internal val map: HashMap<E, Any>\n\n /**\n * Constructs a new empty [HashSet].\n *\n actual
constructor() {\n map = HashMap<E, Any>()\n }\n\n /**\n * Constructs a new [HashSet] filled with the
elements of the specified collection.\n *\n actual constructor(elements: Collection<E>) {\n map =
HashMap<E, Any>(elements.size)\n addAll(elements)\n }\n\n /**\n * Constructs a new empty
[HashSet].\n *\n * @param initialCapacity the initial capacity (ignored)\n * @param loadFactor
the load factor (ignored)\n *\n * @throws IllegalArgumentException if the initial capacity or load factor are
negative\n *\n\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n actual
constructor(initialCapacity: Int, loadFactor: Float = 0.0f) {\n map = HashMap<E, Any>(initialCapacity,
loadFactor)\n }\n\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n /**\n * Protected
constructor to specify the underlying map. This is used by\n * LinkedHashMap.\n *\n * @param map underlying
map to use.\n *\n internal constructor(map: HashMap<E, Any>) {\n this.map = map\n }\n\n actual
override fun add(element: E): Boolean {\n val old = map.put(element, this)\n return old == null\n }\n\n
actual override fun clear() {\n map.clear()\n }\n\n// public override fun clone(): Any {\n// return
HashSet<E>(this)\n// }\n\n actual override operator fun contains(element:
E): Boolean = map.containsKey(element)\n\n actual override fun isEmpty(): Boolean = map.isEmpty()\n\n
actual override fun iterator(): MutableIterator<E> = map.keys.iterator()\n\n actual override fun remove(element:
E): Boolean = map.remove(element) != null\n\n actual override val size: Int get() = map.size\n}\n\n/**\n *
Creates a new instance of the specialized implementation of [HashSet] with the specified [String] elements,\n *
which elements the keys as properties of JS object without hashing them.\n *\n\npublic fun stringSetOf(vararg
elements: String): HashSet<String> {\n return HashSet(stringMapOf<Any>()).apply { addAll(elements)
}\n}\n\n\", \"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n

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* Based on GWT InternalHashCodeMap\n * Copyright 2008 Google Inc.\n */\n\npackage
kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\nimport
kotlin.collections.AbstractMutableMap.SimpleEntry\n\n/**\n * A simple wrapper around JavaScriptObject to
provide [java.util.Map]-like semantics for any\n * key type.\n * \n * Implementation notes:\n * \n * A key's
hashCode is the index in backingMap which should contain that key. Since several keys may\n * have the same
hash, each value in hashCodeMap is actually an array containing all entries whose\n * keys share the same hash.\n
*\n\ninternal class InternalHashCodeMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V>
{\n\n    private var backingMap: dynamic = createJsMap()\n    override var size: Int = 0\n    private set\n\n    override fun put(key: K, value: V): V? {\n        val hashCode = equality.getHashCode(key)\n        val chainOrEntry
= getChainOrEntryOrNull(hashCode)\n        if (chainOrEntry == null) {\n            // This is a new chain, put it to the
map.\n            backingMap[hashCode] = SimpleEntry(key,
value)\n        } else {\n            if (chainOrEntry !is Array<*>) {\n                // It is an entry\n                val entry:
SimpleEntry<K, V> = chainOrEntry\n                if (equality.equals(entry.key, key)) {\n                    return
entry.setValue(value)\n                } else {\n                    backingMap[hashCode] = arrayOf(entry, SimpleEntry(key,
value))\n                    size++\n                    return null\n                }\n            } else {\n                // Chain already
exists, perhaps key also exists.\n                val chain: Array<MutableEntry<K, V>> = chainOrEntry\n                val
entry = chain.findEntryInChain(key)\n                if (entry != null) {\n                    return entry.setValue(value)\n                }\n                chain.asDynamic().push(SimpleEntry(key, value))\n            }\n            size++\n\n            structureChanged(host)\n            return null\n        }\n\n        override fun remove(key: K):
V? {\n            val hashCode = equality.getHashCode(key)\n            val chainOrEntry =
getChainOrEntryOrNull(hashCode) ?: return null\n            if (chainOrEntry !is Array<*>) {\n                val entry:
MutableEntry<K, V> = chainOrEntry\n                if (equality.equals(entry.key, key)) {\n                    jsDeleteProperty(backingMap, hashCode)\n                    size--\n                    return entry.value\n                } else {\n                    return null\n                }\n            } else {\n                val chain: Array<MutableEntry<K, V>> = chainOrEntry\n                for
(index in chain.indices) {\n                    val entry = chain[index]\n                    if (equality.equals(key, entry.key)) {\n                        if (chain.size == 1) {\n                            chain.asDynamic().length = 0\n                            // remove the whole
array\n                            jsDeleteProperty(backingMap, hashCode)\n                        } else {\n                            // splice out
the entry we're removing\n                            chain.asDynamic().splice(index, 1)\n                        }\n                        size--\n\n                        structureChanged(host)\n                        return entry.value\n                    }\n                }\n                return null\n            }\n\n            override fun clear() {\n                backingMap = createJsMap()\n                size = 0\n            }\n\n            override fun contains(key: K):
Boolean = getEntry(key) != null\n\n            override fun get(key: K): V? = getEntry(key)?.value\n\n            private fun
getEntry(key: K): MutableEntry<K, V>? {\n                val chainOrEntry =
getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\n                if (chainOrEntry !is Array<*>) {\n                    val entry: MutableEntry<K, V> = chainOrEntry\n                    if (equality.equals(entry.key, key)) {\n                        return
entry\n                    } else {\n                        return null\n                    }\n                } else {\n                    val chain: Array<MutableEntry<K,
V>> = chainOrEntry\n                    return chain.findEntryInChain(key)\n                }\n            }\n\n            private fun Array<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? =\n            firstOrNull { entry -> equality.equals(entry.key, key) }\n\n            override fun iterator():
MutableIterator<MutableEntry<K, V>> {\n                return object : MutableIterator<MutableEntry<K, V>> {\n\n                    var state = -1 // -1 not ready, 0 - ready, 1 - done\n\n                    val keys: Array<String> =
js("Object").keys(backingMap)\n                    var keyIndex = -1\n                    var chainOrEntry: dynamic = null\n\n                    var isChain = false\n                    var itemIndex = -1\n                    var lastEntry: MutableEntry<K, V>? = null\n\n                    private fun computeNext(): Int {\n                        if (chainOrEntry != null && isChain) {\n                            val chainSize: Int
= chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size\n                            if (++itemIndex < chainSize)\n                                return 0\n                        }\n                        if (++keyIndex
< keys.size) {\n                            chainOrEntry = backingMap[keys[keyIndex]]\n                            isChain = chainOrEntry is
Array<*>\n                            itemIndex = 0\n                            return 0\n                        } else {\n                            chainOrEntry = null\n

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        return 1\n        }\n        }\n\n        override fun hasNext(): Boolean {\n            if (state == -1)\n                state = computeNext()\n                return state == 0\n        }\n\n        override fun next():\nMutableEntry<K, V> {\n            if (!hasNext()) throw NoSuchElementException()\n            val lastEntry = if\n(isChain) {\n                chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]\n            } else\n            {\n                chainOrEntry.unsafeCast<MutableEntry<K, V>>()\n            }\n            this.lastEntry =\nlastEntry\n            state = -1\n            return lastEntry\n        }\n\n        override fun remove() {\n            checkNotNull(lastEntry)\n\n            this@InternalHashMap.remove(lastEntry!!.key)\n            lastEntry = null\n            // the chain being\n            iterated just got modified by InternalHashMap.remove\n            itemIndex--\n        }\n    }\n\n    private fun getChainOrEntryOrNull(hashCode: Int): dynamic {\n        val chainOrEntry = backingMap[hashCode]\n        return if (chainOrEntry === undefined) null else chainOrEntry\n    }\n}\n\n/*\n * Copyright 2010-2018\nJetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the\nApache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * The common interface of [InternalStringMap] and [InternalHashMap].\n */\n\ninternal interface InternalMap<K,\nV> : MutableIterable<MutableMap.MutableEntry<K, V>> {\n    val equality: EqualityComparator\n    val\nsize: Int\n    operator fun contains(key: K): Boolean\n    operator fun get(key: K): V?\n    fun put(key: K, value:\nV): V?\n    fun remove(key: K): V?\n    fun clear(): Unit\n    fun createJsMap(): dynamic {\n        val result =\njs("Object.create(null)")\n        // force to switch object representation to dictionary mode\n        result["foo"] =\n1\n        jsDeleteProperty(result, "foo")\n        return result\n    }\n}\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o.\nand Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license\nthat can be found in the license/LICENSE.txt file.\n */\n\n/*\n * Based on GWT InternalStringMap\n * Copyright\n2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * A simple wrapper around JavaScript Map for key type is string.\n */\n * Though this map is instantiated only with\nK=String, the K type is not fixed to String statically,\n * because\nwe want to have it erased to Any? in order not to generate type-safe override bridges\n * [get], [contains],\n[remove] etc, if they ever are generated.\n */\n\ninternal class InternalStringMap<K, V>(override val equality:\nEqualityComparator) : InternalMap<K, V> {\n    private var backingMap: dynamic = createJsMap()\n    override\nvar size: Int = 0\n    private set\n\n    /**\n     * A mod count to track 'value' replacements in map to ensure that\nthe 'value' that we have in the\n     * iterator entry is guaranteed to be still correct.\n     * This is to optimize for\nthe common scenario where the values are not modified during\n     * iterations where the entries are never\nstale.\n     */\n    private var valueMod: Int = 0\n    override operator fun contains(key: K): Boolean {\n        if\n(key !is String) return false\n        return backingMap[key] !== undefined\n    }\n\n    override operator fun get(key:\nK): V? {\n        if (key !is String) return null\n\n        val value = backingMap[key]\n        return if (value !== undefined) value.unsafeCast<V>() else null\n    }\n\n    override fun put(key: K, value: V): V? {\n        require(key is String)\n        val oldValue = backingMap[key]\n        backingMap[key] = value\n        if (oldValue === undefined) {\n            size++\n\n            structureChanged(host)\n            return null\n        } else {\n            valueMod++\n            return\noldValue.unsafeCast<V>()\n        }\n    }\n\n    override fun remove(key: K): V? {\n        if (key !is String) return\nnull\n        val value = backingMap[key]\n        if (value !== undefined) {\n            jsDeleteProperty(backingMap,\nkey)\n            size--\n            structureChanged(host)\n            return value.unsafeCast<V>()\n        } else {\n            valueMod++\n            return null\n        }\n    }\n\n    override fun clear() {\n        backingMap = createJsMap()\n        size = 0\n    }\n\n    override fun iterator():\nMutableIterator<MutableEntry<K, V>> {\n        return object : MutableIterator<MutableEntry<K, V>> {\n            private val keys: Array<String> = js("Object").keys(backingMap)\n            private val iterator = keys.iterator()\n\n            private var lastKey: String? = null\n\n            override fun hasNext(): Boolean = iterator.hasNext()\n\n            override fun next(): MutableEntry<K, V> {\n                val key = iterator.next()\n                lastKey = key\n                @Suppress("UNCHECKED_CAST")\n                return newMapEntry(key as K)\n            }\n\n            override\nfun remove() {\n                @Suppress("UNCHECKED_CAST")\n
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this@InternalStringMap.remove(checkNotNull(lastKey) as K)\n        }\n        }\n        }\n        private fun
newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {\n        override val key: K get() =
key\n        override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()\n\n        override fun setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()\n\n        override fun hashCode(): Int = AbstractMap.entryHashCode(this)\n        override fun toString(): String =
AbstractMap.entryToString(this)\n        override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this,
other)\n        }\n        }\n        },"/*\n        * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n        * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n        */\n        */\n        * Based on GWT LinkedHashMap\n        * Copyright 2008 Google Inc.\n        */\npackage
kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based
implementation of the [MutableMap] interface, which additionally preserves the insertion order\n * of entries during
the iteration.\n * The insertion order is preserved by maintaining a doubly-linked list of all of its entries.\n
*/\npublic

actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {\n\n    /**\n     * The entry we
use includes next/prev pointers for a doubly-linked circular\n     * list with a head node. This reduces the special
cases we have to deal with\n     * in the list operations.\n     * Note that we duplicate the key from the underlying
hash map so we can find\n     * the eldest entry. The alternative would have been to modify HashMap so more\n     *
of the code was directly usable here, but this would have added some\n     * overhead to HashMap, or to
reimplement most of the HashMap code here with\n     * small modifications. Paying a small storage cost only if
you use\n     * LinkedHashMap and minimizing code size seemed like a better tradeoff\n     */\n    private inner class
ChainEntry<K, V>(key: K, value: V) : AbstractMutableMap.SimpleEntry<K, V>(key, value) {\n        internal var
next: ChainEntry<K, V>? = null\n        internal var prev: ChainEntry<K, V>? = null\n\n        override fun setValue(newValue: V): V {\n            this@LinkedHashMap.checkIsMutable()\n            return
super.setValue(newValue)\n        }\n        }\n\n        private inner class EntrySet : AbstractMutableSet<MutableEntry<K,
V>>() {\n\n            private inner class EntryIterator : MutableIterator<MutableEntry<K, V>> {\n                // The last
entry that was returned from this iterator.\n                private var last: ChainEntry<K, V>? = null\n                // The next
entry to return from this iterator.\n                private var next: ChainEntry<K, V>? = null\n                init {\n                    next = head\n                }\n                recordLastKnownStructure(map, this)\n            }\n\n            override fun hasNext():
Boolean {\n                return next != null\n            }\n\n            override fun next(): MutableEntry<K, V> {\n                checkStructuralChange(map, this)\n                if (!hasNext()) throw NoSuchElementException()\n                val
current = next!!\n                last = current\n                next = current.next.takeIf { it != head }\n                return current\n            }\n        }\n\n        override fun remove() {\n            check(last != null)\n            this@EntrySet.checkIsMutable()\n            checkStructuralChange(map, this)\n            last!!.remove()\n            map.remove(last!!.key)\n            recordLastKnownStructure(map, this)\n            last = null\n        }\n        }\n\n        override fun add(element:
MutableEntry<K, V>): Boolean = throw UnsupportedOperationException("Add is not supported on entries")\n\n        override fun clear() {\n            this@LinkedHashMap.clear()\n        }\n\n        override operator fun
contains(element: MutableEntry<K, V>): Boolean = containsEntry(element)\n\n        override operator fun iterator():
MutableIterator<MutableEntry<K, V>> = EntryIterator()\n\n        override fun remove(element: MutableEntry<K,
V>): Boolean
{\n            checkIsMutable()\n            if (contains(element)) {\n                this@LinkedHashMap.remove(element.key)\n                return true\n            }\n            return false\n        }\n\n        override val size: Int get() = this@LinkedHashMap.size\n\n        override fun checkIsMutable(): Unit =
this@LinkedHashMap.checkIsMutable()\n        }\n        }\n        },"/*\n        * The head of the insert order chain, which is a doubly-
linked circular\n        * list.\n        * The most recently inserted node is at the end of the chain, ie.\n        * chain.prev.\n        */\n        private var head: ChainEntry<K, V>? = null\n\n        /**\n         * Add this node to the end of the chain.\n         */\n        private fun ChainEntry<K, V>.addToEnd() {\n            // This entry is not in the list.\n            check(next == null && prev
== null)\n            val _head = head\n            if (_head == null) {\n                head = this\n                next = this\n                prev =

```



```

with the elements of the specified collection.\n    *^n    actual constructor(elements: Collection<E>) :
super(LinkedHashMap<E, Any>()) {\n    addAll(elements)\n    }\n\n    /**\n    * Constructs a new empty
[LinkedHashSet].\n    *^n    * @param initialCapacity the initial capacity (ignored)\n    * @param loadFactor
the load factor (ignored)\n    *^n    * @throws IllegalArgumentException if the initial capacity or load factor are
negative\n    *^n    * @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n    actual
constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(LinkedHashMap<E, Any>(initialCapacity,
loadFactor))\n\n    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n    @PublishedApi\n    internal
fun build(): Set<E> {\n    (map as LinkedHashMap<E, Any>).build()\n    return this\n    }\n\n    internal
override fun checkIsMutable(): Unit = map.checkIsMutable()\n\n    // public override fun clone(): Any {\n//
return LinkedHashSet(this)\n//    }\n\n    /**\n    * Creates a new instance of the specialized implementation of
[LinkedHashSet] with the specified [String] elements,\n    * which elements the keys as properties of JS object
without hashing them.\n    *^n\n    public fun linkedStringSetOf(vararg elements: String): LinkedHashSet<String> {\n
return LinkedHashSet(linkedStringMapOf<Any>()).apply { addAll(elements) }\n    }\n\n    /**\n    * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n    * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n    *^n\n    package kotlin\n    \nimport
kotlin.contracts.*\n\n    @kotlin.internal.InlineOnly\n    public actual inline fun <R> synchronized(lock: Any, block:
() -> R): R {\n    contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return
block()\n    }\n\n    /**\n    * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n    * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
\n    *^n\n    package kotlin.io\n    \ninternal abstract class BaseOutput {\n    open fun println() {\n    print("\n")\n    }\n\n
open fun println(message: Any?) {\n    print(message)\n    println()\n    }\n\n    abstract fun print(message:
Any?)\n\n    open fun flush() {\n    }\n\n    /** JsName used to make the declaration available outside of module to test it
\n    *^n\n    @JsName("NodeJsOutput")\n    \ninternal class NodeJsOutput(val outputStream: dynamic) : BaseOutput() {\n
override fun print(message: Any?) {\n    // TODO: Using local variable because of bug in block decomposition
lowering in IR backend\n    val messageString = String(message)\n    outputStream.write(messageString)\n
}\n\n    /** JsName used to make the declaration available outside of module to test it
\n    *^n\n    @JsName("OutputToConsoleLog")\n    \ninternal class OutputToConsoleLog : BaseOutput() {\n    override fun
print(message: Any?) {\n    console.log(message)\n    }\n\n    override fun println(message: Any?) {\n
console.log(message)\n    }\n\n    override fun println() {\n    console.log("\n")\n    }\n\n    /** JsName used to
make the declaration available outside of module to test it and use at try.kotl.in
\n    *^n\n    @JsName("BufferedOutput")\n    \ninternal open class BufferedOutput : BaseOutput() {\n    var buffer = ""\n\n
override fun print(message: Any?) {\n    buffer += String(message)\n    }\n\n    override fun flush() {\n    buffer
= ""\n    }\n\n    /** JsName used to make the declaration available outside of module to test it
\n    *^n\n    @JsName("BufferedOutputToConsoleLog")\n    \ninternal class BufferedOutputToConsoleLog : BufferedOutput()\n
{\n    override
fun print(message: Any?) {\n    var s = String(message)\n    val i = s.nativeLastIndexOf("\n", 0)\n    if (i
>= 0) {\n    buffer += s.substring(0, i)\n    flush()\n    s = s.substring(i + 1)\n    }\n    buffer +=
s\n    }\n\n    override fun flush() {\n    console.log(buffer)\n    buffer = ""\n    }\n\n    /** JsName used to
make the declaration available outside of module to test it and use at try.kotl.in\n    *^n\n    @JsName("output")\n    \ninternal
var output = run {\n    val isNode: Boolean = js("typeof process !== 'undefined' && process.versions &&
!!process.versions.node")\n    if (isNode) NodeJsOutput(js("process.stdout")) else
BufferedOutputToConsoleLog()\n\n    @kotlin.internal.InlineOnly\n    private inline fun String(value: Any?): String =
js("String")(value)\n\n    /** Prints the line separator to the standard output stream. *^n\n    public actual fun println() {\n
output.println()\n\n    /** Prints the given [message] and the line
separator to the standard output stream. *^n\n    public actual fun println(message: Any?) {\n
output.println(message)\n\n    /** Prints the given [message] to the standard output stream. *^n\n    public actual fun
print(message: Any?) {\n    output.print(message)\n    }\n\n    /**\n    * Copyright 2010-2018 JetBrains s.r.o. and Kotlin

```

```

Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport
kotlin.coroutines.intrinsics.CoroutineSingletons.*\nimport
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@PublishedApi\n\n@SinceKotlin("1.3")\n\ninternal
actual class SafeContinuation<in T>\n\ninternal actual constructor(\n    private val delegate: Continuation<T>,\n    initialResult: Any?)\n    : Continuation<T> {\n    @PublishedApi\n    internal actual constructor(delegate:
Continuation<T>) : this(delegate, UNDECIDED)\n\n    public actual override val context: CoroutineContext\n        get() = delegate.context\n\n    private var result: Any? = initialResult\n\n    public actual override fun
resumeWith(result: Result<T>) {\n        val cur = this.result\n        when {\n            cur === UNDECIDED -> {\n
                this.result = result.value\n            }\n            cur === COROUTINE_SUSPENDED -> {\n                this.result =
RESUMED\n                delegate.resumeWith(result)\n            }\n            else -> throw
IllegalStateException("Already resumed")\n        }\n    }\n\n    @PublishedApi\n    internal actual fun
getOrThrow(): Any? {\n        if (result === UNDECIDED) {\n            result = COROUTINE_SUSPENDED\n
return COROUTINE_SUSPENDED\n        }\n        val result = this.result\n        return when {\n            result ===
RESUMED -> COROUTINE_SUSPENDED // already called continuation, indicate COROUTINE_SUSPENDED
upstream\n            result is Result.Failure -> throw result.exception\n            else -> result // either
COROUTINE_SUSPENDED or data\n        }\n    }\n}\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.coroutines.cancellation\n\n@SinceKotlin("1.4")\n\npublic actual open class CancellationException :
IllegalStateException {\n    actual constructor() : super()\n    actual constructor(message: String?) : super(message)\n
    constructor(message: String?, cause: Throwable?) : super(message, cause)\n    constructor(cause: Throwable?) :
super(cause)\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.coroutines.js.internal\n\nimport kotlin.coroutines.Continuation\nimport
kotlin.coroutines.EmptyCoroutineContext\n\n@PublishedApi\n\n@SinceKotlin("1.3")\n\ninternal
val EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result ->\n
result.getOrThrow()\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Exposes the [Date
API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.\n
*/\n\n@Suppress("NOT_DOCUMENTED")\n\npublic external class Date() {\n    public constructor(milliseconds:
Number)\n\n    public constructor(dateString: String)\n\n    public constructor(year: Int, month: Int)\n\n    public
constructor(year: Int, month: Int, day: Int)\n\n    public constructor(year: Int, month: Int, day: Int, hour: Int)\n\n
public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\n\n    public constructor(year: Int, month:
Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number)\n\n    public fun getDate(): Int\n\n    public
fun getDay(): Int\n\n    public fun getFullYear(): Int\n\n    public fun getHours(): Int\n\n    public fun
getMilliseconds(): Int\n\n    public fun getMinutes(): Int\n\n    public fun getMonth(): Int\n\n    public fun
getSeconds(): Int\n\n    public fun getTime(): Double\n\n    public fun
getTimezoneOffset(): Int\n\n    public fun getUTCDate(): Int\n\n    public fun getUTCDay(): Int\n\n    public fun
getUTCFullYear(): Int\n\n    public fun getUTCHours(): Int\n\n    public fun getUTCMilliseconds(): Int\n\n    public
fun getUTCMinutes(): Int\n\n    public fun getUTCMonth(): Int\n\n    public fun getUTCSeconds(): Int\n\n    public
fun toDateString(): String\n\n    public fun toISOString(): String\n\n    public fun toJSON(): Json\n\n    public fun
toLocaleDateString(locales: Array<String> = definedExternally,
options: LocaleOptions = definedExternally): String\n\n    public fun toLocaleDateString(locales: String, options:
LocaleOptions = definedExternally): String\n\n    public fun toLocaleString(locales: Array<String> =
definedExternally, options: LocaleOptions = definedExternally): String\n\n    public fun toLocaleString(locales:

```



```

[cssClasses] from element. Has no effect if all specified classes are missing in class attribute of the element\n *\n *
@return true if at least one class has been removed\n *\n@LowPriorityInOverloadResolution\n@Deprecated(\n
message = \"This API is moved to another package, use 'kotlinx.dom.removeClass' instead.\",\n  replaceWith =
ReplaceWith(\"this.removeClass(cssClasses)\",
\"kotlinx.dom.removeClass()\n)\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\")\ninline fun
Element.removeClass(vararg cssClasses: String): Boolean = this.newRemoveClass(*cssClasses)\",/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found
in the license/LICENSE.txt file.\n *\n\npackage kotlin.dom\n\nimport org.w3c.dom.Element\nimport
org.w3c.dom.Node\nimport kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.isElement as
newIsElement\nimport kotlinx.dom.isText as newIsText\n\n/**\n * Gets a value indicating whether this node is a
TEXT_NODE or a CDATA_SECTION_NODE.\n *\n@LowPriorityInOverloadResolution\n@Deprecated(\n
message = \"This API is moved to another package, use 'kotlinx.dom.isText' instead.\",\n  replaceWith =
ReplaceWith(\"this.isText\", \"kotlinx.dom.isText()\n)\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\")\npublic
val Node.isText: Boolean\n  inline get() = this.newIsText\n\n/**\n * Gets a value indicating whether this node is an
[Element].\n *\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = \"This API is moved to
another package, use 'kotlinx.dom.isElement' instead.\",\n  replaceWith = ReplaceWith(\"this.isElement\",
\"kotlinx.dom.isElement()\n)\n)\n@DeprecatedSinceKotlin(warningSince
= \"1.4\")\npublic val Node.isElement: Boolean\n  inline get() = this.newIsElement\n\",/*\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage
org.w3c.dom.events\n\npublic fun EventListener(handler: (Event) -> Unit): EventListener =
EventListenerHandler(handler)\n\nprivate class EventListenerHandler(private val handler: (Event) -> Unit) :
EventListener {\n  public override fun handleEvent(event: Event) {\n    handler(event)\n  }\n\n  public
override fun toString(): String = \"EventListenerHandler($handler)\"\n}\n\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n *\n\npackage org.w3c.dom\n\npublic external interface
ItemArrayLike<out
T> {\n  val length: Int\n  fun item(index: Int): T?\n}\n\n/**\n * Returns the view of this `ItemArrayLike<T>`
collection as `List<T>`\n *\n\npublic fun <T> ItemArrayLike<T>.asList(): List<T> = object : AbstractList<T>() {\n
override val size: Int get() = this@asList.length\n\n  override fun get(index: Int): T = when (index) {\n    in
0..lastIndex -> this@asList.item(index).unsafeCast<T>()\n    else -> throw IndexOutOfBoundsException(\"index
$index is not in range [0..$lastIndex]\")\n  }\n}\n\",/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\npackage kotlin.dom\n\nimport org.w3c.dom.Element\nimport
org.w3c.dom.Node\nimport kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.appendText as
newAppendText\nimport kotlinx.dom.clear as newClear\n\n/**\n * Removes all the children from this node.\n *\n@LowPriorityInOverloadResolution\n@Deprecated(\n
message = \"This API is moved to another package, use 'kotlinx.dom.clear' instead.\",\n  replaceWith =
ReplaceWith(\"this.clear()\", \"kotlinx.dom.clear()\n)\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\")\npublic
inline fun Node.clear() = this.newClear()\n\n/**\n * Creates text node and append it to the element.\n *\n *\n * @return
this element\n *\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = \"This API is moved to
another package, use 'kotlinx.dom.appendText' instead.\",\n  replaceWith = ReplaceWith(\"this.appendText(text)\",
\"kotlinx.dom.appendText()\n)\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\")\ninline fun
Element.appendText(text: String): Element = this.newAppendText(text)\n\",/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin.js\n\n/**\n

```

```

* Reinterprets this value as a value of the [dynamic type](/docs/reference/dynamic-type.html).\n
*\n@kotlin.internal.InlineOnly\npublic inline fun Any?.asDynamic(): dynamic = this\n\n/**\n * Reinterprets this\n value as a value of the specified type [T] without any actual type checking.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Any?.unsafeCast(): @kotlin.internal.NoInfer T =\n this.asDynamic()\n\n/**\n * Reinterprets this `dynamic` value as a value of the specified type [T] without any actual\n type checking.\n
*\n@kotlin.internal.DynamicExtension\n@JsName("unsafeCastDynamic")\n@kotlin.internal.InlineOnly\npublic\n inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\n\n/**\n * Allows to iterate this `dynamic`\n object in the following cases:\n * - when it has an `iterator` function,\n * - when it is an array\n * - when it is an\n instance of [kotlin.collections.Iterable]\n *\n@kotlin.internal.DynamicExtension\npublic operator fun\n dynamic.iterator():\n Iterator<dynamic> {\n     val r: Any? = this\n     return when {\n         this["iterator"] != null ->\n this["iterator"]()\n         isArrayish(r) ->\n         r.unsafeCast<Array<*>>().iterator()\n         else ->\n         (r as\n Iterable<*>).iterator()\n     }\n }\n\n", "*/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language\n contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the\n module\n@JsName("throwNPE")\ninternal fun throwNPE(message: String) {\n     throw\n NullPointerException(message)\n}\n\n@JsName("throwCCE")\ninternal fun throwCCE() {\n     throw\n ClassCastException("Illegal cast")\n}\n\n@JsName("throwISE")\ninternal fun throwISE(message: String) {\n     throw\n IllegalStateException(message)\n}\n\n@JsName("throwUPAE")\ninternal fun throwUPAE(propertyName:\n String) {\n     throw\n UninitializedPropertyAccessException("lateinit\n property ${propertyName} has not been initialized")\n}\n\n", "*/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin\n Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be\n found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Groups elements from the\n [Grouping] source by key and counts elements in each group.\n *\n * @return a [Map] associating the key of each\n group with the count of element in the group.\n *\n@SinceKotlin("1.1")\npublic actual fun <T, K> Grouping<T,\n K>.eachCount(): Map<K, Int> =\n     fold(0) { acc, _ -> acc + 1 }\n\n\n/**\n * Groups elements from the\n [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group.\n *\n * @return a [Map] associating the key of each group with the count of element in the group.\n *\n@SinceKotlin("1.1")\npublic inline fun <T, K> Grouping<T, K>.eachSumOf(valueSelector:\n (T) -> Int): Map<K, Int> =\n     fold(0) { acc, e -> acc + valueSelector(e) }\n\n", "*/\n * Copyright 2010-2018\n JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the\n Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmName("GroupingKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage\n kotlin.collections\n\n/**\n * Represents a source of elements with a [keyOf] function, which can be applied to each\n element to get its key.\n *\n * A [Grouping] structure serves as an intermediate step in group-and-fold operations:\n * they group elements by their keys and then fold each group with some aggregating operation.\n *\n * It is created\n by attaching `keySelector: (T) -> K` function to a source of elements.\n * To get an instance of [Grouping] use one\n of `groupingBy` extension functions:\n * - [Iterable.groupingBy]\n * - [Sequence.groupingBy]\n * -\n [Array.groupingBy]\n * - [CharSequence.groupingBy]\n
*\n * For the list of group-and-fold operations available, see the [extension functions](#extension-functions) for\n `Grouping`.\n *\n@SinceKotlin("1.1")\npublic interface Grouping<T, out K> {\n     /** Returns an [Iterator] over\n the elements of the source of this grouping. *\n     fun sourceIterator(): Iterator<T>\n     /** Extracts the key of an\n [element]. *\n     fun keyOf(element: T): K\n }\n\n\n/**\n * Groups elements from the [Grouping] source by key and\n applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the\n current element as arguments, and stores the results in a new map.\n *\n * The key for each element is provided by\n the [Grouping.keyOf] function.\n *\n * @param operation function is invoked on each element with the following\n parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the

```

accumulator of the group, can be `null` if it's the first `element` encountered in the group;

- `element`: the element from the source being aggregated;
- `first`: indicates whether it's the first `element` encountered in the group.

`@return` a [Map] associating the key of each group with the result of aggregation of the group elements.

`@sample`

```
samples.collections.Grouping.aggregateByRadix
*/
@SinceKotlin("1.1")
public inline fun <T, K, R>
Grouping<T, K>.aggregate(
    operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R): Map<K, R> {
    return aggregateTo(mutableMapOf<K, R>(), operation)
}
```

Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in the given [destination] map.

- The key for each element is provided by the [Grouping.keyOf] function.
- `@param operation` a function that is invoked on each element with the following parameters:
  - `key`: the key of the group this element belongs to;
  - `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;
  - `element`: the element from the source being aggregated;
  - `first`: indicates whether it's the first `element` encountered in the group.
- If the [destination] map already has a value corresponding to some key, then the elements being aggregated for that key are never considered as `first`.

`@return` the [destination] map associating the key of each group with the result of aggregation of the group elements.

`@sample`

```
samples.collections.Grouping.aggregateByRadixTo
*/
@SinceKotlin("1.1")
public inline fun <T, K, R, M : MutableMap<in K, R>>
Grouping<T, K>.aggregateTo(
    destination: M,
    operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R): M {
    for (e in this.sourceIterator()) {
        val key = keyOf(e)
        val accumulator = destination[key]
        destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))
    }
    return destination
}
```

Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in a new map.

- An initial value of accumulator is provided by [initialValueSelector] function.
- `@param initialValueSelector` a function that provides an initial value of accumulator for each group.
- It's invoked with parameters:
  - `key`: the key of the group;
  - `element`: the first element being encountered in that group.
- `@param operation` a function that is invoked on each element with the following parameters:
  - `key`: the key of the group this element belongs to;
  - `accumulator`: the current value of the accumulator of the group;
  - `element`: the element from the source being accumulated.

`@return` a [Map] associating the key of each group with the result of accumulating the group elements.

`@sample`

```
samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue
*/
@SinceKotlin("1.1")
public inline fun <T, K, R>
Grouping<T, K>.fold(
    initialValueSelector: (key: K, element: T) -> R,
    operation: (key: K, accumulator: R, element: T) -> R): Map<K, R> =
    @Suppress("UNCHECKED_CAST")
    aggregate { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }
```

Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in the given [destination] map.

- An initial value of accumulator is provided by [initialValueSelector] function.
- `@param initialValueSelector` a function that provides an initial value of accumulator for each group.
- It's invoked with parameters:
  - `key`: the key of the group;
  - `element`: the first element being encountered in that group.
- If the [destination] map already has a value corresponding to some key, that value is used as an initial value of the accumulator for that group and the [initialValueSelector] function is not called for that group.
- `@param operation` a function that is invoked on each element with the following parameters:
  - `key`: the key of the group this element belongs to;
  - `accumulator`: the current value of the accumulator of the group;
  - `element`: the element from the source being accumulated.

`@return` the [destination] map associating the key of each group with the result of accumulating the group elements.

`@sample`

```
samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo
*/
@SinceKotlin("1.1")
public
```

```

inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n destination: M,\n
initialValueSelector: (key: K, element: T) -> R,\n operation: (key: K, accumulator: R, element: T) -> R\n): M =\n
@Suppress("UNCHECKED_CAST")\n aggregateTo(destination) { key, acc, e, first -> operation(key, if (first)
initialValueSelector(key, e) else acc as R, e) }\n\n/**\n * Groups elements from the [Grouping] source by key and
applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the
current element as arguments, and stores the results in a new map.\n * An initial value of accumulator is the same
[initialValue] for each group.\n * @param operation a function that is invoked on each element with the
following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the
element from the source being accumulated.\n * @return a [Map] associating the key of each group
with the result of accumulating the group elements.\n * @sample
samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue\n */\n@SinceKotlin("1.1")\npublic
inline fun <T, K, R> Grouping<T, K>.fold(\n initialValue: R,\n operation: (accumulator: R, element: T) -> R\n):
Map<K, R> =\n @Suppress("UNCHECKED_CAST")\n aggregate { _, acc, e, first -> operation(if (first)
initialValue else acc as R, e) }\n\n/**\n * Groups elements from the [Grouping] source by key and applies
[operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current
element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of accumulator
is the same [initialValue] for each group.\n * If the [destination] map already has a value corresponding to the key
of some group,\n * that value is used as an initial value of the accumulator for that group.\n * @param operation
a function that is invoked
on each element with the following parameters:\n * - `accumulator`: the current value of the accumulator of the
group;\n * - `element`: the element from the source being accumulated.\n * @return the [destination] map
associating the key of each group with the result of accumulating the group elements.\n * @sample
samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo\n */\n@SinceKotlin("1.1")\npublic
inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n destination: M,\n initialValue: R,\n
operation: (accumulator: R, element: T) -> R\n): M =\n @Suppress("UNCHECKED_CAST")\n
aggregateTo(destination) { _, acc, e, first -> operation(if (first) initialValue else acc as R, e) }\n\n/**\n * Groups
elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\n *
sequentially starting from the second element of the group,\n * passing the previously accumulated value and the
current element
as arguments,\n * and stores the results in a new map.\n * An initial value of accumulator is the first element of the
group.\n * @param operation a function that is invoked on each subsequent element of the group with the
following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current
value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n * @return
a [Map] associating the key of each group with the result of accumulating the group elements.\n * @sample
samples.collections.Grouping.reduceByMaxVowels\n */\n@SinceKotlin("1.1")\npublic inline fun <S, T : S, K>
Grouping<T, K>.reduce(\n operation: (key: K, accumulator: S, element: T) -> S\n): Map<K, S> =\n aggregate {
key, acc, e, first ->\n @Suppress("UNCHECKED_CAST")\n if (first) e else operation(key, acc as S, e)\n
}\n\n/**\n * Groups elements from the [Grouping] source by key and applies the reducing
[operation] to the elements of each group\n * sequentially starting from the second element of the group,\n *
passing the previously accumulated value and the current element as arguments,\n * and stores the results in the
given [destination] map.\n * An initial value of accumulator is the first element of the group.\n * If the
[destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial
value of the accumulator for that group and the first element of that group is also\n * subjected to the
[operation].\n * @param operation a function that is invoked on each subsequent element of the group with the
following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the
element from the source being folded;\n * @return the [destination] map associating the key of each group with
the result of accumulating the group elements.\n * @sample
samples.collections.Grouping.reduceByMaxVowelsTo\n

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*^@SinceKotlin("1.1")\npublic inline fun <S, T : S, K, M : MutableMap<in K, S>> Grouping<T,
K>.reduceTo(\n destination: M,\n operation: (key: K, accumulator: S, element: T) -> S)\n: M =\n
aggregateTo(destination) { key, acc, e, first ->\n    @Suppress("UNCHECKED_CAST")\n    if (first) e else
operation(key, acc as S, e)\n } \n\n/**\n * Groups elements from the [Grouping] source by key and counts
elements in each group to the given [destination] map.\n *\n * If the [destination] map already has a value
corresponding to the key of some group,\n * that value is used as an initial value of the counter for that group.\n *\n
* @return the [destination] map associating the key of each group with the count of elements in the group.\n *\n
* @sample samples.collections.Grouping.groupingByEachCount\n *^@SinceKotlin("1.1")\npublic inline fun <T, K, M :
MutableMap<in K, Int>> Grouping<T, K>.eachCountTo(destination: M): M =\n    foldTo(destination, 0) { acc, _ ->
acc + 1 } \n\n/**\n * Groups elements from the [Grouping] source by key and sums values provided by the
[valueSelector] function for elements in each group\n * to the given [destination] map.\n *\n *\n * If the
[destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial
value of the sum for that group.\n *\n * @return the [destination] map associating the key of each group with the
sum of elements in the group.\n *^@SinceKotlin("1.1")\npublic inline fun <T, K, M : MutableMap<in K, Int>>
Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =\n    foldTo(destination, 0) { acc, e
-> acc + valueSelector(e)} \n\n/**\n // TODO: sum by long and by double overloads\n\npublic inline fun <T, K,
M : MutableMap<in K, Long>> Grouping<T, K>.sumEachByLongTo(destination: M, valueSelector: (T) -> Long):
M =\n    foldTo(destination, 0L) { acc, e -> acc + valueSelector(e)} \n\npublic inline fun <T, K> Grouping<T,
K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =\n    fold(0L) { acc, e -> acc +
valueSelector(e)} \n\npublic inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T,
K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\n    foldTo(destination, 0.0) { acc, e
-> acc + valueSelector(e)} \n\npublic inline fun <T, K> Grouping<T, K>.sumEachByDouble(valueSelector: (T) ->
Double): Map<K, Double> =\n    fold(0.0) { acc, e -> acc + valueSelector(e)} \n\n"/**\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n *\n\npackage kotlin.js\n\n/**\n * Exposes the JavaScript [Math object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Math)
to Kotlin.\n *\n *^@Deprecated("Use top-level functions from kotlin.math package instead.", level =
DeprecationLevel.ERROR)\n\npublic external
object Math {\n    @Deprecated("Use kotlin.math.PI instead.", ReplaceWith("PI", "kotlin.math.PI"), level =
DeprecationLevel.ERROR)\n    public val PI: Double\n    @Deprecated("Use Random.nextDouble instead",
ReplaceWith("kotlin.random.Random.nextDouble()", "kotlin.random.Random"), level =
DeprecationLevel.ERROR)\n    public fun random(): Double\n    @Deprecated("Use kotlin.math.abs instead.",
ReplaceWith("abs(value)", "kotlin.math.abs"), level = DeprecationLevel.ERROR)\n    public fun abs(value:
Double): Double\n    @Deprecated("Use kotlin.math.acos instead.", ReplaceWith("acos(value)",
"kotlin.math.acos"), level = DeprecationLevel.ERROR)\n    public fun acos(value: Double): Double\n    @Deprecated("Use kotlin.math.asin instead.", ReplaceWith("asin(value)",
"kotlin.math.asin"), level =
DeprecationLevel.ERROR)\n    public fun asin(value: Double): Double\n    @Deprecated("Use kotlin.math.atan
instead.", ReplaceWith("atan(value)", "kotlin.math.atan"),
level = DeprecationLevel.ERROR)\n    public fun atan(value: Double): Double\n    @Deprecated("Use
kotlin.math.atan2 instead.", ReplaceWith("atan2(y, x)", "kotlin.math.atan2"), level =
DeprecationLevel.ERROR)\n    public fun atan2(y: Double, x: Double): Double\n    @Deprecated("Use
kotlin.math.cos instead.", ReplaceWith("cos(value)", "kotlin.math.cos"), level = DeprecationLevel.ERROR)\n
public fun cos(value: Double): Double\n    @Deprecated("Use kotlin.math.sin instead.",
ReplaceWith("sin(value)", "kotlin.math.sin"), level = DeprecationLevel.ERROR)\n    public fun sin(value:
Double): Double\n    @Deprecated("Use kotlin.math.exp instead.", ReplaceWith("exp(value)",
"kotlin.math.exp"), level = DeprecationLevel.ERROR)\n    public fun exp(value: Double): Double\n    @Deprecated("Use maxOf or kotlin.math.max instead", level = DeprecationLevel.ERROR)\n    public fun
max(vararg values: Int): Int\n    @Deprecated("Use maxOf or kotlin.math.max instead", level =

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DeprecationLevel.ERROR)\n
    public fun max(vararg values: Float): Float\n    @Deprecated("Use maxOf or kotlin.math.max instead", level =
DeprecationLevel.ERROR)\n    public fun max(vararg values: Double): Double\n    @Deprecated("Use minOf or
kotlin.math.min instead", level = DeprecationLevel.ERROR)\n    public fun min(vararg values: Int): Int\n
@Deprecated("Use minOf or kotlin.math.min instead", level = DeprecationLevel.ERROR)\n    public fun
min(vararg values: Float): Float\n    @Deprecated("Use minOf or kotlin.math.min instead", level =
DeprecationLevel.ERROR)\n    public fun min(vararg values: Double): Double\n    @Deprecated("Use
kotlin.math.sqrt instead.", ReplaceWith("sqrt(value)", "kotlin.math.sqrt"), level = DeprecationLevel.ERROR)\n
public fun sqrt(value: Double): Double\n    @Deprecated("Use kotlin.math.tan instead.",
ReplaceWith("tan(value)", "kotlin.math.tan"), level = DeprecationLevel.ERROR)\n    public fun tan(value:
Double): Double\n    @Deprecated("Use
kotlin.math.ln instead.", ReplaceWith("ln(value)", "kotlin.math.ln"), level = DeprecationLevel.ERROR)\n
public fun log(value: Double): Double\n    @Deprecated("Use kotlin.math.pow instead.",
ReplaceWith("base.pow(exp)", "kotlin.math.pow"), level = DeprecationLevel.ERROR)\n    public fun pow(base:
Double, exp: Double): Double\n    @Deprecated("Use kotlin.math.round instead.", ReplaceWith("round(value)",
"kotlin.math.round"), level = DeprecationLevel.ERROR)\n    public fun round(value: Number): Int\n
@Deprecated("Use kotlin.math.floor instead.", ReplaceWith("floor(value)", "kotlin.math.floor"), level =
DeprecationLevel.ERROR)\n    public fun floor(value: Number): Int\n    @Deprecated("Use kotlin.math.ceil
instead.", ReplaceWith("ceil(value)", "kotlin.math.ceil"), level = DeprecationLevel.ERROR)\n    public fun
ceil(value: Number): Int\n\n    @PublishedApi\n    internal fun trunc(value: Number): Double\n    @PublishedApi\n
internal fun sign(value:
Number): Double\n\n    @PublishedApi\n    internal fun sinh(value: Double): Double\n    @PublishedApi\n
internal fun cosh(value: Double): Double\n    @PublishedApi\n    internal fun tanh(value: Double): Double\n
@PublishedApi\n    internal fun asinh(value: Double): Double\n    @PublishedApi\n    internal fun acosh(value:
Double): Double\n    @PublishedApi\n    internal fun atanh(value: Double): Double\n\n    @PublishedApi\n
internal fun hypot(x: Double, y: Double): Double\n\n    @PublishedApi\n    internal fun expm1(value: Double):
Double\n\n    @PublishedApi\n    internal fun log10(value: Double): Double\n    @PublishedApi\n    internal fun
log2(value: Double): Double\n    @PublishedApi\n    internal fun log1p(value: Double): Double\n\n
@PublishedApi\n    internal fun clz32(value: Int): Int\n}\n\n/**\n * Returns the smaller of two values.\n
*/\n\n@Suppress("DEPRECATION_ERROR")\n@Deprecated("Use minOf or kotlin.math.min instead",
ReplaceWith("minOf(a, b)"), level
= DeprecationLevel.ERROR)\npublic fun Math.min(a: Long, b: Long): Long = if (a <= b) a else b\n\n/**\n *
Returns the greater of two values.\n */\n\n@Suppress("DEPRECATION_ERROR")\n@Deprecated("Use maxOf or
kotlin.math.max instead", ReplaceWith("maxOf(a, b)"), level = DeprecationLevel.ERROR)\npublic fun
Math.max(a: Long, b: Long): Long = if (a >= b) a else b\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * An interface for indexing access to a
collection of key-value pairs, where type of key is [String] and type of value is [Any?][Any].\n */\n\npublic external
interface Json {\n    /**\n     * Calls to the function will be translated to indexing operation (square brackets) on the
receiver with [propertyName] as the argument.\n     *\n     * E.g. for next code:\n     * ```kotlin\n     * fun
test(j: Json, p: String) = j["prop"] + j.get(p)\n     * ```\n     *\n     * will be generated:\n     * ```js\n     * function
test(j, p) {\n     *     return j["prop"] + j[p];\n     * }\n     * ```\n     */\n     * ^\n     * operator fun get(propertyName: String):
Any?\n\n    /**\n     * Calls of the function will be translated to an assignment of [value] to the receiver indexed
(with square brackets/index operation) with [propertyName].\n     *\n     * E.g. for the following code:\n     *
```kotlin\n     * fun test(j: Json, p: String, newValue: Any) {\n     *     j["prop"] = 1\n     *     j.set(p, newValue)\n
     * }\n     * ```\n     *\n     * will be generated:\n     * ```js\n     * function test(j, p, newValue) {\n     *     j["prop"] =
1;\n     *     j[p] = newValue;\n     * }\n     * }\n     * ```\n     */\n     * ^\n     * operator fun set(propertyName: String, value:
Any?): Unit\n\n}\n\n/**\n * Returns a simple JavaScript object (as [Json]) using provided key-value pairs as names

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and values of

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its properties.\n *^npublic fun json(vararg pairs: Pair<String, Any?>): Json {\n    val res: dynamic = js("{}")\n    for ((name, value) in pairs) {\n        res[name] = value\n    }\n    return res\n}\n\n/**\n * Adds key-value pairs from [other] to [this].\n * Returns the original receiver.\n */\npublic fun Json.add(other: Json): Json {\n    val keys: Array<String> = js("Object").keys(other)\n    for (key in keys) {\n        if (other.asDynamic().hasOwnProperty(key)) {\n            this[key] = other[key];\n        }\n    }\n    return this\n}\n\n/**\n * Exposes the JavaScript [JSON object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) to Kotlin.\n
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*\n * @Suppress("NOT_DOCUMENTED")\npublic external object JSON {\n    public fun stringify(o: Any?): String\n    public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?): String\n    public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: Int): String\n    public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: String): String\n    public fun stringify(o: Any?, replacer: Array<String>): String\n    public fun stringify(o: Any?, replacer: Array<String>, space: Int): String\n    public fun stringify(o: Any?, replacer: Array<String>, space: String): String\n\n    public fun <T> parse(text: String): T\n    public fun <T> parse(text: String, reviver: ((key: String, value: Any?) -> Any?): T)\n}\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n@file:Suppress("DEPRECATION_ERROR")\npackage kotlin.math\n\nimport kotlin.internal.InlineOnly\nimport kotlin.js.Math as nativeMath\n\n// region
```

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=====  
Double Math =====\n\n/** Computes the sine of the angle [x]
```

given in radians.\n \* Special cases:\n \* - `sin(NaN|+Inf|-Inf)` is `NaN`\n

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*\n * @SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sin(x: Double): Double =
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nativeMath.sin(x)\n\n/** Computes the cosine of the angle [x] given in radians.\n * Special cases:\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun cos(x: Double): Double = nativeMath.cos(x)\n\n/** Computes the tangent of the angle [x] given in radians.\n * Special cases:\n * - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun tan(x: Double): Double = nativeMath.tan(x)\n\n/** Computes the arc sine of the value [x];\n * the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.\n * Special cases:\n * - `asin(x)` is `NaN`, when  $abs(x) > 1$  or x is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun asin(x: Double): Double = nativeMath.asin(x)\n\n/** Computes
```

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the arc cosine of the value [x];\n * the returned value is an angle in the range from  $0.0$  to  $\pi$  radians.\n * Special cases:\n * - `acos(x)` is `NaN`, when  $abs(x) > 1$  or x is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun acos(x: Double): Double = nativeMath.acos(x)\n\n/** Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.\n * Special cases:\n * - `atan(NaN)` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atan(x: Double): Double = nativeMath.atan(x)\n\n/** Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value  $y / x$ ;\n * the returned value is an angle in the range from  $-\pi$  to  $\pi$  radians.\n * Special cases:\n * - `atan2(0.0, 0.0)` is  $0.0$ \n * - `atan2(0.0, x)` is  $0.0$  for  $x > 0$  and  $\pi$  for  $x < 0$ \n * - `atan2(-0.0, x)` is  $-0.0$  for  $x > 0$  and  $-\pi$  for  $x < 0$ \n * - `atan2(y, +Inf)` is  $0.0$  for  $0 < y < +Inf$  and  $-0.0$  for  $-\text{Inf} < y < 0$ \n * - `atan2(y, -Inf)` is  $\pi$  for  $0 < y < +Inf$  and  $-\pi$  for  $-\text{Inf} < y < 0$ \n * - `atan2(y, 0.0)` is  $\pi/2$  for  $y > 0$  and  $-\pi/2$  for  $y < 0$ \n * - `atan2(+Inf, x)` is  $\pi/2$  for finite  $x$ \n * - `atan2(-Inf, x)` is  $-\pi/2$  for finite  $x$ \n * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atan2(y: Double, x: Double): Double = nativeMath.atan2(y, x)\n\n/** Computes the hyperbolic sine of the value [x].\n * Special cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is  $+\text{Inf}$ \n * - `sinh(-Inf)` is  $-\text{Inf}$ \n
```

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*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun sinh(x: Double): Double =
nativeMath.sinh(x)\n\n/**\n * Computes the hyperbolic cosine of the value [x].\n *\n * Special cases:\n * - `cosh(NaN)` is `NaN`\n * - `cosh(+Inf|-Inf)`
is `+Inf`\n *\n@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun cosh(x: Double): Double =
nativeMath.cosh(x)\n\n/**\n * Computes the hyperbolic tangent of the value [x].\n *\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `1.0`\n * - `tanh(-Inf)` is `-1.0`\n
*\n@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun tanh(x: Double): Double =
nativeMath.tanh(x)\n\n/**\n * Computes the inverse hyperbolic sine of the value [x].\n *\n * The returned value is
`y` such that `sinh(y) == x`.\n *\n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * -
`asinh(-Inf)` is `-Inf`\n *\n@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun asinh(x: Double): Double
= nativeMath.asinh(x)\n\n/**\n * Computes the inverse hyperbolic cosine of the value [x].\n *\n * The returned
value is positive `y` such that `cosh(y) == x`.\n *\n * Special cases:\n * - `acosh(NaN)` is `NaN`\n * - `acosh(x)`
is `NaN` when `x <
1`\n * - `acosh(+Inf)` is `+Inf`\n *\n@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun acosh(x:
Double): Double = nativeMath.acosh(x)\n\n/**\n * Computes the inverse hyperbolic tangent of the value [x].\n *\n *
The returned value is `y` such that `tanh(y) == x`.\n *\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(x)`
is `NaN` when `x > 1` or `x < -1`\n * - `tanh(1.0)` is `+Inf`\n * - `tanh(-1.0)` is `-Inf`\n
*\n@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun atanh(x: Double): Double =
nativeMath.atanh(x)\n\n/**\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n *\n *
Special cases:\n * - returns `+Inf` if any of arguments is infinite\n * - returns `NaN` if any of arguments is `NaN`
and the other is not infinite\n *\n@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun hypot(x: Double, y:
Double): Double = nativeMath.hypot(x, y)\n\n/**\n * Computes the positive square root of the value [x].\n *\n *
Special
cases:\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n *\n@SinceKotlin("1.2")@InlineOnly\npublic
actual inline fun sqrt(x: Double): Double = nativeMath.sqrt(x)\n\n/**\n * Computes Euler's number `e` raised to the
power of the value [x].\n *\n * Special cases:\n * - `exp(NaN)` is `NaN`\n * - `exp(+Inf)` is `+Inf`\n * - `exp(-
Inf)` is `0.0`\n *\n@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun exp(x: Double): Double =
nativeMath.exp(x)\n\n/**\n * Computes `exp(x) - 1`.\n *\n * This function can be implemented to produce more
precise result for [x] near zero.\n *\n * Special cases:\n * - `expm1(NaN)` is `NaN`\n * - `expm1(+Inf)` is `+Inf`\n
* - `expm1(-Inf)` is `-1.0`\n * @see [exp] function.\n *\n@SinceKotlin("1.2")@InlineOnly\npublic actual
inline fun expm1(x: Double): Double = nativeMath.expm1(x)\n\n/**\n * Computes the logarithm of the value [x] to
the given [base].\n *\n * Special cases:\n * - `log(x, b)` is `NaN` if either `x`
or `b` are `NaN`\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n * - `log(+Inf, +Inf)` is `NaN`\n
* - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b >
1`\n *\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n
*\n@SinceKotlin("1.2")@InlineOnly\npublic actual fun log(x: Double, base: Double): Double {
    if (base <= 0.0 || base ==
1.0) return Double.NaN\n    return nativeMath.log(x) / nativeMath.log(base)\n}\n\n/**\n * Computes the natural
logarithm (base `E`) of the value [x].\n *\n * Special cases:\n * - `ln(NaN)` is `NaN`\n * - `ln(x)` is `NaN` when
`x < 0.0`\n * - `ln(+Inf)` is `+Inf`\n * - `ln(0.0)` is `-Inf`\n *\n@SinceKotlin("1.2")@InlineOnly\npublic
actual inline fun ln(x: Double): Double = nativeMath.log(x)\n\n/**\n * Computes the common logarithm (base 10)
of the value [x].\n *\n * @see [ln] function for special cases.\n *\n@SinceKotlin("1.2")@InlineOnly\npublic
actual inline fun log10(x: Double): Double = nativeMath.log10(x)\n\n/**\n * Computes the binary logarithm (base
2) of the value [x].\n *\n * @see [ln] function for special cases.\n *\n@SinceKotlin("1.2")@InlineOnly\npublic
actual inline fun log2(x: Double): Double = nativeMath.log2(x)\n\n/**\n * Computes `ln(x + 1)`.\n *\n * This
function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n * -
`ln1p(NaN)` is `NaN`\n * - `ln1p(x)` is `NaN` where `x < -1.0`\n * - `ln1p(-1.0)` is `-Inf`\n * - `ln1p(+Inf)` is
`+Inf`\n *\n * @see [ln] function\n * @see [expm1] function\n *\n@SinceKotlin("1.2")@InlineOnly\npublic
actual inline fun ln1p(x: Double): Double = nativeMath.log1p(x)\n\n/**\n * Rounds the given value [x] to an integer

```

towards positive infinity.  
 @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.  
 Special cases:  
 - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

```

*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun ceil(x: Double): Double =
nativeMath.ceil(x).unsafeCast<Double>() // TODO: Remove unsafe cast after removing public js.math
Rounds the given value [x] to an integer towards negative infinity.  

@return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.  

Special cases:  

- floor(x) is x where x is NaN or +Inf or -Inf or already a mathematical integer.

```

```

*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun floor(x: Double): Double =
nativeMath.floor(x).unsafeCast<Double>()\n\n* Rounds the given value [x] to an integer towards zero.  

@return the value [x] having its fractional part truncated.  

Special cases:  

- truncate(x) is x where x is NaN or +Inf or -Inf or already a mathematical integer.

```

```

*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun truncate(x: Double): Double =
nativeMath.trunc(x)\n\n* Rounds the given value [x] towards the closest integer with ties rounded towards even integer.  

Special cases:  

- round(x) is x where x is NaN or +Inf or -Inf or already a mathematical integer.

```

```

*^@SinceKotlin("1.2")@InlineOnly\npublic actual fun round(x: Double): Double {
    if (x % 0.5 != 0.0) {
        return nativeMath.round(x).unsafeCast<Double>()
    }
    val floor = floor(x)
    return if (floor % 2 == 0.0) floor else ceil(x)
}\n\n* Returns the absolute value of the given value [x].  

Special cases:  

- abs(NaN) is NaN  

@see absoluteValue extension property for [Double]

```

```

*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun abs(x: Double): Double =
nativeMath.abs(x)\n\n* Returns the sign of the given value [x]:  

- -1.0 if the value is negative,  

- zero if the value is zero,  

- 1.0 if the value is positive  

Special case:  

- sign(NaN) is NaN

```

```

*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun sign(x: Double): Double =
nativeMath.sign(x)\n\n* Returns the smaller of two values.  

If either value is NaN, then the result is NaN.

```

```

*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun min(a: Double, b: Double): Double =
nativeMath.min(a, b)\n\n* Returns the greater of two values.  

If either value is NaN, then the result is NaN.

```

```

*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun max(a: Double, b: Double): Double =
nativeMath.max(a, b)\n\n// extensions\n\n* Raises this value to the power [x].  

Special cases:  

- b.pow(0.0) is 1.0  

- b.pow(1.0) == b  

- b.pow(NaN) is NaN  

- NaN.pow(x) is NaN for x != 0.0  

- b.pow(Inf) is NaN for abs(b) == 1.0  

- b.pow(x) is NaN for b < 0 and x is finite and not an integer

```

```

*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun Double.pow(x: Double): Double =
nativeMath.pow(this, x)\n\n* Raises this value to the integer power [n].  

See the other overload of [pow] for details.

```

```

*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun Double.pow(n: Int): Double =
nativeMath.pow(this, n.toDouble())\n\n* Returns the absolute value of this value.  

Special cases:  

- NaN.absoluteValue is NaN  

@see abs function

```

```

*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline val Double.absoluteValue: Double get() =
nativeMath.abs(this)\n\n* Returns the sign of this value:  

- -1.0 if the value is negative,  

- zero if the value is zero,  

- 1.0 if the value is positive  

Special case:  

- NaN.sign is NaN

```

```

*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline val Double.sign: Double get() =
nativeMath.sign(this)\n\n* Returns this value with the sign bit same as of the [sign] value.

```

```

*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun Double.withSign(sign: Int): Double =
this.withSign(sign.toDouble())\n\n* Returns the ulp (unit in the last place) of this value.  

An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.  

Special Cases:  

- NaN.ulp is NaN  

- x.ulp is +Inf when x is +Inf or -Inf  

- 0.0.ulp is Double.MIN_VALUE

```

```

*^@SinceKotlin("1.2")\npublic actual val Double.ulp: Double get() =
when {
    this < 0 -> (-this).ulp
    this.isNaN() || this == Double.POSITIVE_INFINITY -> this
    this == Double.MAX_VALUE -> this - this.nextDown()
    else -> this.nextUp() - this
}\n\n* Returns the [Double] value nearest to this value in direction of positive infinity.

```

```

*^@SinceKotlin("1.2")\npublic actual fun

```

```

Double.nextUp(): Double = when {
    this.isNaN() || this == Double.POSITIVE_INFINITY
-> this
    this == 0.0 -> Double.MIN_VALUE
    else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -
1)
}
}

Returns the [Double] value nearest to this value in direction of negative infinity.

SinceKotlin("1.2")
public actual fun Double.nextDown(): Double = when {
    this.isNaN() || this ==
Double.NEGATIVE_INFINITY -> this
    this == 0.0 -> -Double.MIN_VALUE
    else ->
Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)
}

Returns the [Double] value nearest to this
value in direction from this value towards the value [to].

Special cases:
    - `x.nextTowards(y)` is `NaN` if
either `x` or `y` are `NaN`
    - `x.nextTowards(x) == x`

SinceKotlin("1.2")
public actual fun
Double.nextTowards(to: Double): Double = when {
    this.isNaN() || to.isNaN() -> Double.NaN
    to == this ->
to
    to > this -> this.nextUp()
    else /* to < this */ -> this.nextDown()
}

Rounds this [Double]
value to
the nearest integer and converts the result to [Int].

Ties are rounded towards positive infinity.

Special
cases:
    - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`
    - `x.roundToInt() ==
Int.MIN_VALUE` when `x < Int.MIN_VALUE`

@throws IllegalArgumentException when this value is
`NaN`

SinceKotlin("1.2")
public actual fun Double.roundToInt(): Int = when {
    isNaN() -> throw
IllegalArgumentException("Cannot round NaN value.")
    this > Int.MAX_VALUE -> Int.MAX_VALUE
    this < Int.MIN_VALUE -> Int.MIN_VALUE
    else ->
nativeMath.round(this).unsafeCast<Double>().toInt()
}

Rounds this [Double] value to the nearest
integer and converts the result to [Long].

Ties are rounded towards positive infinity.

Special cases:
    - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`
    - `x.roundToLong() ==
Long.MIN_VALUE` when `x < Long.MIN_VALUE`

@throws IllegalArgumentException when this value
is `NaN`

SinceKotlin("1.2")
public actual fun Double.roundToLong(): Long = when {
    isNaN() ->
throw IllegalArgumentException("Cannot round NaN value.")
    this > Long.MAX_VALUE ->
Long.MAX_VALUE
    this < Long.MIN_VALUE -> Long.MIN_VALUE
    else ->
nativeMath.round(this).unsafeCast<Double>().toLong()
}

endregion
// region =====
Float Math =====
Computes the sine of the angle [x] given
in radians.

Special cases:
    - `sin(NaN|+Inf|-Inf)` is `NaN`

SinceKotlin("1.2")
@InlineOnly
public actual inline fun sin(x: Float): Float =
nativeMath.sin(x.toDouble()).toFloat()

Computes the cosine of the angle [x] given in radians.

Special
cases:
    - `cos(NaN|+Inf|-Inf)` is `NaN`

SinceKotlin("1.2")
@InlineOnly
public actual inline fun
cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()

Computes the tangent of the angle [x] given in
radians.

Special cases:
    - `tan(NaN|+Inf|-Inf)` is `NaN`

SinceKotlin("1.2")
@InlineOnly
public actual
inline fun tan(x: Float): Float = nativeMath.tan(x.toDouble()).toFloat()

Computes the arc sine of the value
[x];
the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.

Special cases:
    -
`asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`

SinceKotlin("1.2")
@InlineOnly
public actual inline
fun asin(x: Float): Float = nativeMath.asin(x.toDouble()).toFloat()

Computes the arc cosine of the value
[x];
the returned value is an angle in the range from  $0.0$  to  $\pi$  radians.

Special cases:
    - `acos(x)`
is `NaN`, when `abs(x) > 1` or x is `NaN`

SinceKotlin("1.2")
@InlineOnly
public actual inline fun
acos(x: Float): Float = nativeMath.acos(x.toDouble()).toFloat()

Computes the arc tangent of the value
[x];
the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$ 
radians.

Special cases:
    - `atan(NaN)` is `NaN`

SinceKotlin("1.2")
@InlineOnly
public
actual inline fun atan(x: Float): Float = nativeMath.atan(x.toDouble()).toFloat()

Returns the angle `theta`
of the polar coordinates `(r, theta)` that correspond
to the rectangular coordinates `(x, y)` by computing the arc
tangent of the value  $y / x$ ;
the returned value is an angle in the range from  $-\pi$  to  $\pi$  radians.

Special cases:
    - `atan2(0.0, 0.0)` is  $0.0$ 
    - `atan2(0.0, x)` is  $0.0$  for  $x > 0$  and  $\pi$  for  $x < 0$ 
    -
`atan2(-0.0, x)` is  $-0.0$  for  $x > 0$  and  $-\pi$  for  $x < 0$ 
    - `atan2(y, +Inf)` is  $0.0$  for  $0 < y < +Inf$  and  $-0.0$ 
for  $-\text{Inf} < y < 0$ 
    - `atan2(y, -Inf)` is  $\pi$  for  $0 < y < +Inf$  and  $-\pi$  for  $-\text{Inf} < y < 0$ 
    - `atan2(y, 0.0)` is

```

$\pi/2$  for  $y > 0$  and  $-\pi/2$  for  $y < 0$ .  
 $\text{atan2}(+\infty, x)$  is  $\pi/2$  for finite  $x$ .  
 $\text{atan2}(-\infty, x)$  is  $-\pi/2$  for finite  $x$ .  
 $\text{atan2}(\text{NaN}, x)$  and  $\text{atan2}(y, \text{NaN})$  is  $\text{NaN}$ .

```

@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun atan2(y: Float, x: Float): Float = nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()
  
```

Computes the hyperbolic sine of the value  $[x]$ .  
 Special cases:  
 $\sinh(\text{NaN})$  is  $\text{NaN}$ .  
 $\sinh(+\infty)$  is  $+\infty$ .  
 $\sinh(-\infty)$  is  $-\infty$ .
 

```

@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun sinh(x: Float): Float = nativeMath.sinh(x.toDouble()).toFloat()
  
```

Computes the hyperbolic cosine of the value  $[x]$ .  
 Special cases:  
 $\cosh(\text{NaN})$  is  $\text{NaN}$ .  
 $\cosh(+\infty)$  is  $+\infty$ .  
 $\cosh(-\infty)$  is  $+\infty$ .
 

```

@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun cosh(x: Float): Float = nativeMath.cosh(x.toDouble()).toFloat()
  
```

Computes the hyperbolic tangent of the value  $[x]$ .  
 Special cases:  
 $\tanh(\text{NaN})$  is  $\text{NaN}$ .  
 $\tanh(+\infty)$  is  $1.0$ .  
 $\tanh(-\infty)$  is  $-1.0$ .
 

```

@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun tanh(x: Float): Float = nativeMath.tanh(x.toDouble()).toFloat()
  
```

Computes the inverse hyperbolic sine of the value  $[x]$ .  
 The returned value is  $y$  such that  $\sinh(y) == x$ .  
 Special cases:  
 $\text{asinh}(\text{NaN})$  is  $\text{NaN}$ .  
 $\text{asinh}(+\infty)$  is  $+\infty$ .  
 $\text{asinh}(-\infty)$  is  $-\infty$ .
 

```

@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun asinh(x: Float): Float = nativeMath.asinh(x.toDouble()).toFloat()
  
```

Computes the inverse hyperbolic cosine of the value  $[x]$ .  
 The returned value is positive  $y$  such that  $\cosh(y) == x$ .  
 Special cases:  
 $\text{acosh}(\text{NaN})$  is  $\text{NaN}$ .  
 $\text{acosh}(x)$  is  $\text{NaN}$  when  $x < 1$ .  
 $\text{acosh}(+\infty)$  is  $+\infty$ .
 

```

@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun acosh(x: Float): Float = nativeMath.acosh(x.toDouble()).toFloat()
  
```

Computes the inverse hyperbolic tangent of the value  $[x]$ .  
 The returned value is  $y$  such that  $\tanh(y) == x$ .  
 Special cases:  
 $\text{atanh}(\text{NaN})$  is  $\text{NaN}$ .  
 $\text{atanh}(x)$  is  $\text{NaN}$  when  $x > 1$  or  $x < -1$ .  
 $\text{atanh}(1.0)$  is  $+\infty$ .  
 $\text{atanh}(-1.0)$  is  $-\infty$ .
 

```

@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun atanh(x: Float): Float = nativeMath.atanh(x.toDouble()).toFloat()
  
```

Computes  $\sqrt{x^2 + y^2}$  without intermediate overflow or underflow.  
 Special cases:  
 - returns  $+\infty$  if any of arguments is infinite.  
 - returns  $\text{NaN}$  if any of arguments is  $\text{NaN}$  and the other is not infinite.
 

```

@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun hypot(x: Float, y: Float): Float = nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()
  
```

Computes the positive square root of the value  $[x]$ .  
 Special cases:  
 $\sqrt{x}$  is  $\text{NaN}$  when  $x < 0$  or  $x$  is  $\text{NaN}$ .
 

```

@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun sqrt(x: Float): Float = nativeMath.sqrt(x.toDouble()).toFloat()
  
```

Computes Euler's number  $e$  raised to the power of the value  $[x]$ .  
 Special cases:  
 $\exp(\text{NaN})$  is  $\text{NaN}$ .  
 $\exp(+\infty)$  is  $+\infty$ .  
 $\exp(-\infty)$  is  $0.0$ .
 

```

@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun exp(x: Float): Float = nativeMath.exp(x.toDouble()).toFloat()
  
```

Computes  $\exp(x) - 1$ .  
 This function can be implemented to produce more precise result for  $[x]$  near zero.  
 Special cases:  
 $\text{expm1}(\text{NaN})$  is  $\text{NaN}$ .  
 $\text{expm1}(+\infty)$  is  $+\infty$ .  
 $\text{expm1}(-\infty)$  is  $-1.0$ .  
 @see [exp] function.
 

```

@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun expm1(x: Float): Float = nativeMath.expm1(x.toDouble()).toFloat()
  
```

Computes the logarithm of the value  $[x]$  to the given [base].  
 Special cases:  
 $\log(x, b)$  is  $\text{NaN}$  if either  $x$  or  $b$  are  $\text{NaN}$ .  
 $\log(x, b)$  is  $\text{NaN}$  when  $x < 0$  or  $b \leq 0$  or  $b == 1.0$ .  
 $\log(+\infty, +\infty)$  is  $\text{NaN}$ .  
 $\log(+\infty, b)$  is  $+\infty$  for  $b > 1$  and  $-\infty$  for  $b < 1$ .  
 $\log(0.0, b)$  is  $-\infty$  for  $b > 1$  and  $+\infty$  for  $b < 1$ .  
 See also logarithm functions for common fixed bases: [ln], [log10] and [log2].
 

```

@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun log(x: Float, base: Float): Float = log(x.toDouble(), base.toDouble()).toFloat()
  
```

Computes the natural logarithm (base  $E$ ) of the value  $[x]$ .  
 Special cases:  
 $\ln(\text{NaN})$  is  $\text{NaN}$ .  
 $\ln(x)$  is  $\text{NaN}$  when  $x < 0.0$ .  
 $\ln(+\infty)$  is  $+\infty$ .  
 $\ln(0.0)$  is  $-\infty$ .
 

```

@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun ln(x: Float): Float = nativeMath.log(x.toDouble()).toFloat()
  
```

Computes the common logarithm (base 10) of the value  $[x]$ .  
 @see [ln] function for special cases.
 

```

@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun log10(x: Float): Float = nativeMath.log10(x.toDouble()).toFloat()
  
```

Computes the binary logarithm (base 2) of the value  $[x]$ .  
 @see [ln] function for special

cases.  
`fun log2(x: Float): Float = nativeMath.log2(x.toDouble()).toFloat()`  
 Computes  $\ln(a + 1)$ . This function can be implemented to produce more precise result for  $[x]$  near zero.  
 Special cases:  
 $\ln(\text{NaN})$  is  $\text{NaN}$   
 $\ln(x)$  is  $\text{NaN}$  where  $x < -1.0$   
 $\ln(-1.0)$  is  $-\text{Inf}$   
 $\ln(+\text{Inf})$  is  $+\text{Inf}$   
 @see [ln] function  
`fun ln1p(x: Float): Float = nativeMath.log1p(x.toDouble()).toFloat()`  
 Rounds the given value  $[x]$  to an integer towards positive infinity.  
 @return the smallest Float value that is greater than or equal to the given value  $[x]$  and is a mathematical integer.  
 Special cases:  
 $\text{ceil}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.  
`fun ceil(x: Float): Float = nativeMath.ceil(x.toDouble()).toFloat()`  
 Rounds the given value  $[x]$  to an integer towards negative infinity.  
 @return the largest Float value that is smaller than or equal to the given value  $[x]$  and is a mathematical integer.  
 Special cases:  
 $\text{floor}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.  
`fun floor(x: Float): Float = nativeMath.floor(x.toDouble()).toFloat()`  
 Rounds the given value  $[x]$  to an integer towards zero.  
 @return the value  $[x]$  having its fractional part truncated.  
 Special cases:  
 $\text{truncate}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.  
`fun truncate(x: Float): Float = truncate(x.toDouble()).toFloat()`  
 Rounds the given value  $[x]$  towards the closest integer with ties rounded towards even integer.  
 Special cases:  
 $\text{round}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.  
`fun round(x: Float): Float = round(x.toDouble()).toFloat()`  
 Returns the absolute value of the given value  $[x]$ .  
 Special cases:  
 $\text{abs}(\text{NaN})$  is  $\text{NaN}$   
 @see absoluteValue extension property for [Float]  
`fun abs(x: Float): Float = nativeMath.abs(x.toDouble()).toFloat()`  
 Returns the sign of the given value  $[x]$ :  
 $-1.0$  if the value is negative,  
 $0.0$  if the value is zero,  
 $1.0$  if the value is positive  
 Special case:  
 $\text{sign}(\text{NaN})$  is  $\text{NaN}$   
`fun sign(x: Float): Float = nativeMath.sign(x.toDouble()).toFloat()`  
 Returns the smaller of two values.  
 If either value is  $\text{NaN}$ , then the result is  $\text{NaN}$ .  
`fun min(a: Float, b: Float): Float = nativeMath.min(a, b).toFloat()`  
 Returns the greater of two values.  
 If either value is  $\text{NaN}$ , then the result is  $\text{NaN}$ .  
`fun max(a: Float, b: Float): Float = nativeMath.max(a, b).toFloat()`  
 Raises this value to the power  $[x]$ .  
 Special cases:  
 $b.\text{pow}(0.0)$  is  $1.0$   
 $b.\text{pow}(1.0) == b$   
 $b.\text{pow}(\text{NaN})$  is  $\text{NaN}$   
 $\text{NaN}.\text{pow}(x)$  is  $\text{NaN}$  for  $x != 0.0$   
 $b.\text{pow}(\text{Inf})$  is  $\text{NaN}$  for  $\text{abs}(b) == 1.0$   
 $b.\text{pow}(x)$  is  $\text{NaN}$  for  $b < 0$  and  $x$  is finite and not an integer  
`fun Float.pow(x: Float): Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()`  
 Raises this value to the integer power  $[n]$ .  
 See the other overload of [pow] for details.  
`fun Float.pow(n: Int): Float = nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()`  
 Returns the absolute value of this value.  
 Special cases:  
 $\text{NaN}.\text{absoluteValue}$  is  $\text{NaN}$   
 @see abs function  
`val Float.absoluteValue: Float get() = nativeMath.abs(this.toDouble()).toFloat()`  
 Returns the sign of this value:  
 $-1.0$  if the value is negative,  
 $0.0$  if the value is zero,  
 $1.0$  if the value is positive  
 Special case:  
 $\text{NaN}.\text{sign}$  is  $\text{NaN}$   
`val Float.sign: Float get() = nativeMath.sign(this.toDouble()).toFloat()`  
 Returns this value with the sign bit same as of the [sign] value.  
 If [sign] is  $\text{NaN}$  the sign of the result is undefined.  
`fun Float.withSign(sign: Float): Float =`

```

this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/**\n * Returns this value with the sign bit same as of the
[sign] value.\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Int): Float =
this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/**\n * Rounds this [Float] value to the nearest integer and
converts the result to [Int].\n * Ties are rounded towards positive infinity.\n */\n * Special cases:\n * -
`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE`
when `x < Int.MIN_VALUE`\n */\n * @throws IllegalArgumentException when this value is `NaN`\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToInt(): Int =
toDouble().roundToInt()\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to
[Long].\n * Ties are rounded towards positive infinity.\n */\n * Special cases:\n * - `x.roundToLong() ==
Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n
* - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n */\n * @throws
IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual
inline fun Float.roundToLong(): Long = toDouble().roundToLong()\n\n// endregion\n\n// region
===== Integer Math =====\n\n/**\n * Returns
the absolute value of the given value [n].\n */\n * Special cases:\n * - `abs(Int.MIN_VALUE)` is
`Int.MIN_VALUE` due to an overflow\n */\n * @see absoluteValue extension property for [Int]\n */\n// TODO:
remove manual 'or' when KT-19290 is fixed\n@SinceKotlin("1.2")\npublic actual fun abs(n: Int): Int = if (n < 0) (-
n or 0) else n\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic
actual inline fun min(a: Int, b: Int): Int = nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Int,
b: Int): Int = nativeMath.max(a, b)\n\n/**\n * Returns the absolute value of this value.\n */\n * Special cases:\n * -
`Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n */\n * @see abs function\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Int.absoluteValue: Int get() = abs(this)\n\n/**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value
is positive\n */\n@SinceKotlin("1.2")\npublic actual val Int.sign: Int get() = when {\n this < 0 -> -1\n this > 0 -
> 1\n else -> 0\n}\n\n/**\n * Returns the absolute value of the given value [n].\n */\n * Special cases:\n * -
`abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n */\n * @see absoluteValue extension
property for [Long]\n */\n@SinceKotlin("1.2")\npublic actual fun abs(n: Long): Long = if (n < 0) -n else
n\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin("1.2")\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline fun min(a: Long, b: Long): Long = if (a <= b) a else b\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin("1.2")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun max(a: Long, b:
Long): Long = if (a >= b) a else b\n\n/**\n * Returns the absolute value of this value.\n */\n * Special cases:\n * -
`Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n */\n * @see abs function\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Long.absoluteValue: Long get() =
abs(this)\n\n/**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n
* - `1` if the value is positive\n */\n@SinceKotlin("1.2")\npublic actual val Long.sign: Int get() = when {\n this
< 0 -> -1\n this > 0 -> 1\n else -> 0\n}\n\n// endregion\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin\n\n/**\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n
*/\n\npublic actual fun Double.isNaN(): Boolean = this != this\n\n/**\n * Returns `true` if the specified number is a\n
* Not-a-Number (NaN) value, `false` otherwise.\n */\n\npublic actual fun Float.isNaN(): Boolean = this !=
this\n\n/**\n * Returns `true` if this value is infinitely large in magnitude.\n */\n\npublic actual fun Double.isInfinite():
Boolean = this == Double.POSITIVE_INFINITY || this == Double.NEGATIVE_INFINITY\n\n/**\n * Returns
`true` if this value is infinitely large in magnitude.\n */\n\npublic actual fun Float.isInfinite(): Boolean = this ==
Float.POSITIVE_INFINITY || this == Float.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if the argument is a
finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\n */\n\npublic actual fun

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Double.isFinite(): Boolean = !isInfinite() && !isNaN()\n\n/**\n * Returns `true` if the argument is a finite floating-
point value; returns `false` otherwise (for `NaN` and infinity arguments).\n\n^/npublic actual fun Float.isFinite():
Boolean = !isInfinite() && !isNaN()\n\n\n/**\n * Counts the number of set bits in the binary representation of this
[Int] number.\n\n^/n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.countOneBits(): Int {\n // Hacker's Delight 5-1 algorithm\n var v = this\n v = (v and 0x55555555) +
(v.ushr(1) and 0x55555555)\n v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)\n v = (v and 0x0F0F0F0F)
+ (v.ushr(4) and 0x0F0F0F0F)\n v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)\n v = (v and
0x0000FFFF) + (v.ushr(16))\n return v}\n\n\n/**\n * Counts the number of consecutive most significant bits that
are zero in the binary representation of this [Int] number.\n\n^/n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("DEPRECATION_E
RROR")\n@kotlin.internal.InlineOnly\npublic
actual inline fun Int.countLeadingZeroBits(): Int = kotlin.js.Math.clz32(this)\n\n\n/**\n * Counts the number of
consecutive least significant bits that are zero in the binary representation of this [Int] number.\n\n^/n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.countTrailingZeroBits(): Int =\n // Hacker's Delight 5-4 algorithm for expressing countTrailingZeroBits with
countLeadingZeroBits\n Int.SIZE_BITS - (this or -this).inv().countLeadingZeroBits()\n\n\n/**\n * Returns a
number having a single bit set in the position of the most significant set bit of this [Int] number,\n * or zero, if this
number is zero.\n\n^/n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.takeHighestOneBit(): Int =\n if (this == 0) 0 else 1.shl(Int.SIZE_BITS - 1 - countLeadingZeroBits())\n\n\n/**\n * Returns
a number having a single bit set in the position of the least significant set bit of this [Int] number,\n * or zero, if this
number is zero.\n\n^/n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.takeLowestOneBit(): Int =\n // Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\n this and -
this\n\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of
bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the
right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit
count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32)
returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n\n^/n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Int.rotateLeft(bitCount:
Int): Int =\n shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)\n\n\n/**\n * Rotates the binary representation of
this [Int] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the
right side reenter the number as the most significant bits on the left side.\n * Rotating the number right by a
negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) ==
number.rotateLeft(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more
generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n\n^/n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Int.rotateRight(bitCount: Int): Int =\n
shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)\n\n\n/**\n * Counts the number of set bits in the binary
representation of this [Long] number.\n\n^/n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual
fun Long.countOneBits(): Int =\n high.countOneBits() + low.countOneBits()\n\n\n/**\n * Counts the number of
consecutive most significant bits that are zero in the binary representation of this [Long] number.\n\n^/n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countLeadingZeroBits(): Int =\n when (val high = this.high) {\n 0 -> Int.SIZE_BITS +
low.countLeadingZeroBits()\n else -> high.countLeadingZeroBits()\n }\n\n\n/**\n * Counts the number of
consecutive least significant bits that are zero in the binary representation of this [Long] number.\n\n^/n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countTrailingZeroBits(): Int =\n when (val low = this.low) {\n 0 -> Int.SIZE_BITS +
high.countTrailingZeroBits()\n else -> low.countTrailingZeroBits()\n }\n\n\n/**\n * Returns a number having a

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single bit set in the position of the most significant set bit of this [Long] number, \n \* or zero, if this number is zero.\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.takeHighestOneBit(): Long =\n    when (val high = this.high) {\n        0 -> Long(low.takeHighestOneBit(),
0)\n        else -> Long(0, high.takeHighestOneBit())\n    }\n\n/**\n * Returns a number having a single bit set in the
position of the least significant set bit of this [Long] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.takeLowestOneBit(): Long =\n    when (val low = this.low) {\n        0 -> Long(0, high.takeLowestOneBit())\n
else -> Long(low.takeLowestOneBit(), 0)\n    }\n\n/**\n * Rotates the binary representation of this [Long]
number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side
reenter the number as the least significant bits on the right side.\n *\n * Rotating
the number left by a negative bit count is the same as rotating it right by the negated bit count:\n *
`number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns
the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Long.rotateLeft(bitCount: Int): Long {\n
if ((bitCount and 31) != 0) {\n    val low = this.low\n    val high = this.high\n    val newLow =
low.shl(bitCount) or high.ushr(-bitCount)\n    val newHigh = high.shl(bitCount) or low.ushr(-bitCount)\n
return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh, newLow)\n    } else {\n    return
if ((bitCount and 32) == 0) this else Long(high, low)\n    }\n}\n\n/**\n * Rotates the binary representation of this
[Long] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the
right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a
negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) ==
number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more
generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic actual inline fun
Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport
kotlin.internal.LowPriorityInOverloadResolution\n\n/**\n * Exposes the JavaScript [Promise
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Promise)
to Kotlin.\n *\n@Suppress("NOT_DOCUMENTED")\npublic open external class Promise<out T>(executor:
(resolve: (T) -> Unit, reject: (Throwable) -> Unit) -> Unit) {\n    @LowPriorityInOverloadResolution\n    public
open fun <S> then(onFulfilled: ((T) -> S)?): Promise<S>\n\n    @LowPriorityInOverloadResolution\n    public open
fun <S> then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>\n\n    public open fun <S>
catch(onRejected: (Throwable) -> S): Promise<S>\n\n    companion object {\n        public fun <S> all(promise:
Array<out Promise<S>>): Promise<Array<out S>>\n\n        public fun <S> race(promise: Array<out
Promise<S>>): Promise<S>\n\n        public fun reject(e: Throwable): Promise<Nothing>\n\n        public fun <S>
resolve(e: S): Promise<S>\n\n        public fun <S> resolve(e: Promise<S>): Promise<S>\n    }\n}\n\n// It's workaround
for KT-19672 since we can fix it properly until KT-11265 isn't fixed.\n\ninline fun <T, S>
Promise<Promise<T>>.then(\n
noinline onFulfilled: ((T) -> S)?\n): Promise<S> {\n    return
this.unsafeCast<Promise<T>>().then(onFulfilled)\n}\n\ninline fun <T, S> Promise<Promise<T>>.then(\n
noinline onFulfilled: ((T) -> S)?,\n    noinline onRejected: ((Throwable) -> S)?\n): Promise<S> {\n    return
this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport
kotlin.math.pow\n\ninternal actual fun defaultPlatformRandom(): Random =\n    Random(js("Math.random() *
Math.pow(2, 32)) | 0").unsafeCast<Int>())\n\nprivate val INV_2_26: Double = 2.0.pow(-26)\n\nprivate val

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INV_2_53: Double = 2.0.pow(-53)\ninternal actual fun doubleFromParts(hi26: Int, low27: Int): Double =\n  hi26 *
INV_2_26 + low27 * INV_2_53", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *^\n\npackage kotlin.reflect\n\nimport findAssociatedObject\n\n/**\n * The
experimental marker for associated objects API.\n *\n * Any usage of a declaration annotated with
`@ExperimentalAssociatedObjects` must be accepted either by\n * annotating that usage with the [OptIn]
annotation, e.g. `@OptIn(ExperimentalAssociatedObjects::class)`,\n * or by using the compiler argument `-Xopt-
in=kotlin.reflect.ExperimentalAssociatedObjects`. \n *^\n\n@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n@Retention(value = AnnotationRetention.BINARY)\npublic annotation class
ExperimentalAssociatedObjects\n\n/**\n * Makes the annotated annotation class an associated object key.\n *\n *
An associated object key annotation should have single [KClass] parameter.\n * When applied to a class with
reference to an object declaration as an argument, it binds\n
* the object to the class, making this binding discoverable at runtime using [findAssociatedObject].\n
*\n\n@ExperimentalAssociatedObjects\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.A
NNOTATION_CLASS)\npublic annotation class AssociatedObjectKey\n\n/**\n * If [T] is an
@[AssociatedObjectKey]-annotated annotation class and [this] class is annotated with @[T](`S::class`),\n * returns
object `S`. \n *\n * Otherwise returns `null`. \n *\n\n@ExperimentalAssociatedObjects\npublic inline fun <reified T :
Annotation> KClass<*>.findAssociatedObject(): Any? =\n  this.findAssociatedObject(T::class)", /*\n * Copyright
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *^\n\npackage kotlin.js\n\nimport
getKClass\n\nimport kotlin.reflect.KClass\n\nimport kotlin.reflect.js.internal.KClassImpl\n\n\n/**\n * Represents the
constructor of a class. Instances
of `JsClass` can be passed to JavaScript APIs that expect a constructor reference.\n *^\n\nexternal interface JsClass<T
: Any> {\n  /**\n   * Returns the unqualified name of the class represented by this instance.\n   *\n   val name:
String\n}\n\n/**\n * Obtains a constructor reference for the given `KClass`. \n *^\n\nval <T : Any> KClass<T>.js:
JsClass<T>\n  get() = (this as KClassImpl<T>).jClass\n\n\n/**\n * Obtains a `KClass` instance for the given
constructor reference.\n *^\n\nval <T : Any> JsClass<T>.kotlin: KClass<T>\n  get() = getKClass(this)", /*\n *
Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *^\n\npackage
kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal abstract class KClassImpl<T : Any>(\n  internal open
val jClass: JsClass<T>)\n) : KClass<T> {\n\n  override val qualifiedName: String?\n
  get() = TODO()\n\n  override fun equals(other: Any?): Boolean {\n    return other is KClassImpl<*> &&
jClass == other.jClass\n  }\n\n  // TODO: use FQN\n  override fun hashCode(): Int = simpleName?.hashCode()
?: 0\n\n  override fun toString(): String {\n    // TODO: use FQN\n    return "\"class $simpleName\"\n"
}\n}\n\ninternal class SimpleKClassImpl<T : Any>(jClass: JsClass<T>) : KClassImpl<T>(jClass) {\n  override val
simpleName: String? = jClass.asDynamic().`$metadata$`.simpleName.unsafeCast<String?>()\n\n  override fun
isInstance(value: Any?): Boolean {\n    return jsIsType(value, jClass)\n  }\n}\n\ninternal class
PrimitiveKClassImpl<T : Any>(\n  jClass: JsClass<T>,\n  private val givenSimpleName: String,\n  private val
isInstanceFunction: (Any?) -> Boolean)\n) : KClassImpl<T>(jClass) {\n  override fun equals(other: Any?): Boolean
{\n    if (other !is PrimitiveKClassImpl<*>) return false\n    return super.equals(other) && givenSimpleName
== other.givenSimpleName\n  }\n\n  override val simpleName: String? get() = givenSimpleName\n\n  override
fun isInstance(value: Any?): Boolean {\n    return isInstanceFunction(value)\n  }\n}\n\ninternal object
NothingKClassImpl : KClassImpl<Nothing>(js("Object")) {\n  override val simpleName: String =
"Nothing"\n\n  override fun isInstance(value: Any?): Boolean = false\n\n  override val jClass:
JsClass<Nothing>\n    get() = throw UnsupportedOperationException("There's no native JS class for Nothing
type")\n\n  override fun equals(other: Any?): Boolean = other === this\n\n  override fun hashCode(): Int =
0\n}\n\ninternal class ErrorKClass : KClass<Nothing> {\n  override val simpleName: String? get() =
error("Unknown simpleName for ErrorKClass")\n\n  override val qualifiedName: String? get() = error("Unknown

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qualifiedName for ErrorKClass")\n\n    override fun isInstance(value: Any?): Boolean = error("Can's check
isInstance on ErrorKClass")\n\n
    override fun equals(other: Any?): Boolean = other === this\n\n    override fun hashCode(): Int = 0\n}"/*\n *
Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.reflect\n\ninternal actual inline val KClass<*>.qualifiedOrSimpleName: String? get() =
simpleName"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n// a package is omitted to get declarations directly under the module\n\n// TODO: Remove once
JsReflectionAPICallChecker supports more reflection types\n\n@file:Suppress("Unsupported")\n\nimport
kotlin.reflect.*\nimport kotlin.reflect.js.internal.*\n\n@JsName("createKType")\n\ninternal fun createKType(\n
classifier: KClassifier,\n
arguments: Array<KTypeProjection>,\n isMarkedNullable: Boolean)\n) =\n    KTypeImpl(classifier,
arguments.asList(), isMarkedNullable)\n\n@JsName("createDynamicKType")\n\ninternal fun
createDynamicKType(): KType = DynamicKType\n\n@JsName("markKTypeNullable")\n\ninternal fun
markKTypeNullable(kType: KType) = KTypeImpl(kType.classifier!!, kType.arguments,
true)\n\n@JsName("createKTypeParameter")\n\ninternal fun createKTypeParameter(\n name: String,\n
upperBounds: Array<KType>,\n variance: String)\n): KTypeParameter {\n val kVariance = when (variance) {\n
    "in" -> KVariance.IN\n    "out" -> KVariance.OUT\n    else -> KVariance.INVARIANT\n } \n\n return
KTypeParameterImpl(name, upperBounds.asList(), kVariance,
false)\n}\n\n@JsName("getStarKTypeProjection")\n\ninternal fun getStarKTypeProjection(): KTypeProjection =\n
KTypeProjection.STAR\n\n@JsName("createCovariantKTypeProjection")\n\ninternal fun
createCovariantKTypeProjection(type: KType): KTypeProjection
=\n    KTypeProjection.covariant(type)\n\n@JsName("createInvariantKTypeProjection")\n\ninternal fun
createInvariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.invariant(type)\n\n@JsName("createContravariantKTypeProjection")\n\ninternal fun
createContravariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.contravariant(type)\n}"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal class
KTypeImpl(\n override val classifier: KClassifier,\n override val arguments: List<KTypeProjection>,\n
override val isMarkedNullable: Boolean)\n) : KType {\n override fun equals(other: Any?): Boolean =\n    other
is KTypeImpl &&\n        classifier == other.classifier && arguments == other.arguments
&& isMarkedNullable == other.isMarkedNullable\n\n override fun hashCode(): Int =\n    (classifier.hashCode()
* 31 + arguments.hashCode()) * 31 + isMarkedNullable.hashCode()\n\n override fun toString(): String {\n val
kClass = (classifier as? KClass<*>)\n    val classifierName = when {\n        kClass == null ->
classifier.toString()\n        kClass.simpleName != null -> kClass.simpleName\n        else -> "(non-denotable
type)" \n    }\n\n    val args =\n        if (arguments.isEmpty()) ""\n        else arguments.joinToString(", ",
"<", ">") { it.asString() }\n\n    val nullable = if (isMarkedNullable) "?" else ""\n\n    return classifierName
+ args + nullable\n } \n\n // TODO: this should be the implementation of KTypeProjection.toString, see KT-
30071\n private fun KTypeProjection.asString(): String {\n    if (variance == null) return ""\n    return
variance.prefixString() + type.toString()\n }\n}\n\ninternal object DynamicKType : KType {\n override val classifier: KClassifier? = null\n override val
arguments: List<KTypeProjection> = emptyList()\n override val isMarkedNullable: Boolean = false\n override
fun toString(): String = "dynamic"\n}\n\ninternal fun KVariance.prefixString() =\n    when (this) {\n
KVariance.INVARIANT -> ""\n    KVariance.IN -> "in "\n    KVariance.OUT -> "out "\n } \n}"/*\n *
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governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage

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kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal data class KTypeParameterImpl(\n    override val
name: String,\n    override val upperBounds: List<KType>,\n    override val variance: KVariance,\n    override val
isReified: Boolean\n) : KTypeParameter {\n    override fun toString(): String = name\n},"/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.reflect.js.internal\n\nimport kotlin.js.JsClass\n\n@JsName("PrimitiveClasses")\n\ninternal object
PrimitiveClasses {\n    @JsName("anyClass")\n    val anyClass =
PrimitiveKClassImpl(js("Object").unsafeCast<JsClass<Any>>(), "Any", { it is Any })\n\n    @JsName("numberClass")\n    val numberClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Number>>(), "Number", { it is Number })\n\n    @JsName("nothingClass")\n    val nothingClass = NothingKClassImpl\n\n    @JsName("booleanClass")\n    val
booleanClass = PrimitiveKClassImpl(js("Boolean").unsafeCast<JsClass<Boolean>>(), "Boolean", { it is Boolean
})\n\n    @JsName("byteClass")\n    val byteClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Byte>>(), "Byte", { it is Byte })\n\n    @JsName("shortClass")\n    val shortClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Short>>(), "Short", { it is Short })\n\n    @JsName("intClass")\n    val intClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Int>>(), "Int",
{ it is Int })\n\n    @JsName("floatClass")\n    val floatClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Float>>(), "Float", { it is Float })\n\n    @JsName("doubleClass")\n    val doubleClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Double>>(), "Double", { it is Double })\n\n    @JsName("arrayClass")\n    val arrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<Array<*>>>(), "Array", { it is Array<*> })\n\n    @JsName("stringClass")\n    val stringClass = PrimitiveKClassImpl(js("String").unsafeCast<JsClass<String>>(),
"String", { it is String })\n\n    @JsName("throwableClass")\n    val throwableClass =
PrimitiveKClassImpl(js("Error").unsafeCast<JsClass<Throwable>>(),
"Throwable", { it is Throwable })\n\n    @JsName("booleanArrayClass")\n    val booleanArrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<BooleanArray>>(), "BooleanArray", { it is BooleanArray
})\n\n    @JsName("charArrayClass")\n    val charArrayClass =
PrimitiveKClassImpl(js("Uint16Array").unsafeCast<JsClass<CharArray>>(), "CharArray", { it is CharArray
})\n\n    @JsName("byteArrayClass")\n    val byteArrayClass =
PrimitiveKClassImpl(js("Int8Array").unsafeCast<JsClass<ByteArray>>(), "ByteArray", { it is ByteArray })\n\n    @JsName("shortArrayClass")\n    val shortArrayClass =
PrimitiveKClassImpl(js("Int16Array").unsafeCast<JsClass<ShortArray>>(), "ShortArray", { it is ShortArray
})\n\n    @JsName("intArrayClass")\n    val intArrayClass =
PrimitiveKClassImpl(js("Int32Array").unsafeCast<JsClass<IntArray>>(), "IntArray", { it is IntArray })\n\n    @JsName("longArrayClass")\n    val longArrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<LongArray>>(),
"LongArray", { it is LongArray })\n\n    @JsName("floatArrayClass")\n    val floatArrayClass =
PrimitiveKClassImpl(js("Float32Array").unsafeCast<JsClass<FloatArray>>(), "FloatArray", { it is FloatArray
})\n\n    @JsName("doubleArrayClass")\n    val doubleArrayClass =
PrimitiveKClassImpl(js("Float64Array").unsafeCast<JsClass<DoubleArray>>(), "DoubleArray", { it is
DoubleArray })\n\n    @JsName("functionClass")\n    fun functionClass(arity: Int): KClassImpl<Any> {\n    return functionClasses.get(arity) ?: run {\n        val result =
PrimitiveKClassImpl(js("Function").unsafeCast<JsClass<Any>>(), "Function$arity",\n        { jsTypeOf(it) === "function" && it.asDynamic().length === arity })\n        functionClasses.asDynamic()[arity]
= result\n        result\n    }\n}\n\nprivate val functionClasses =
arrayOfNulls<KClassImpl<Any>>(0), "/*\n * Copyright 2010-2020 JetBrains s.r.o.

```

and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\n// a package is omitted to get declarations directly under the module\n\nimport kotlin.reflect.\*\nimport kotlin.reflect.js.internal.\*\n\n@JsName("\ngetKClass\n")\n\ninternal fun <T : Any> getKClass(jClass: Any /\* JsClass<T> | Array<JsClass<T>> \*/): KClass<T> {\n return if (js("\nArray\n").isArray(jClass)) {\n getKClassM(jClass.unsafeCast<Array<JsClass<T>>>())\n } else {\n getKClassI(jClass.unsafeCast<JsClass<T>>())\n }\n}\n\n@JsName("\ngetKClassM\n")\n\ninternal fun <T : Any> getKClassM(jClasses: Array<JsClass<T>>): KClass<T> = when (jClasses.size) {\n 1 -> getKClassI(jClasses[0])\n 0 -> Nothing\n KClassImpl.unsafeCast<KClass<T>>()\n else -> ErrorKClass().unsafeCast<KClass<T>>()\n}\n\n@JsName("\ngetKClassFromExpression\n")\n\ninternal fun <T : Any> getKClassFromExpression(e: T): KClass<T> =\n when (jsTypeOf(e)) {\n "\nstring\n" -> PrimitiveClasses.stringClass\n "\nnumber\n" -> if (jsBitwiseOr(e, 0).asDynamic() === e) PrimitiveClasses.intClass else PrimitiveClasses.doubleClass\n "\nboolean\n" -> PrimitiveClasses.booleanClass\n "\nfunction\n" -> PrimitiveClasses.functionClass(e.asDynamic().length)\n else -> {\n when {\n e is BooleanArray -> PrimitiveClasses.booleanArrayClass\n e is CharArray -> PrimitiveClasses.charArrayClass\n e is ByteArray -> PrimitiveClasses.byteArrayClass\n e is ShortArray -> PrimitiveClasses.shortArrayClass\n e is IntArray -> PrimitiveClasses.intArrayClass\n e is LongArray -> PrimitiveClasses.longArrayClass\n e is FloatArray -> PrimitiveClasses.floatArrayClass\n e is DoubleArray -> PrimitiveClasses.doubleArrayClass\n e is KClass<\*> -> KClass::class\n e is Array<\*> -> PrimitiveClasses.arrayClass\n }\n else -> {\n val constructor = js("\nObject\n").getPrototypeOf(e).constructor\n when {\n constructor === js("\nObject\n") -> PrimitiveClasses.anyClass\n constructor === js("\nError\n") -> PrimitiveClasses.throwableClass\n else -> {\n val jsClass: JsClass<T> = constructor\n getKClassI(jsClass)\n }\n }\n }\n }\n }.unsafeCast<KClass<T>>()\n\n@JsName("\ngetKClassI\n")\n\ninternal fun <T : Any> getKClassI(jClass: JsClass<T>): KClass<T> {\n if (jClass === js("\nString\n")) return PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()\n\n val metadata = jClass.asDynamic().`\$metadata\$\n`\n return if (metadata != null) {\n if (metadata.`\$kClass\$\n` == null) {\n val kClass = SimpleKClassImpl(jClass)\n metadata.`\$kClass\$\n` = kClass\n kClass\n } else {\n metadata.`\$kClass\$\n`\n }\n } else {\n SimpleKClassImpl(jClass)\n }\n}\n\n/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage kotlin.js\n\n/\*\*\n \* Exposes the JavaScript [RegExp object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global\_Objects/RegExp) to Kotlin.\n \*/\n\n@Suppress("\nNOT\_DOCUMENTED\n")\n\npublic external class RegExp(pattern: String, flags: String? = definedExternally) {\n public fun test(str: String): Boolean\n public fun exec(str: String): RegExpMatch?\n\n public override fun toString(): String\n\n /\*\*\n \* The lastIndex is a read/write integer property of regular expressions that specifies the index at which to start the next match.\n \*/\n public var lastIndex: Int\n\n public val global: Boolean\n public val ignoreCase: Boolean\n public val multiline: Boolean\n}\n\n/\*\*\n \* Resets the regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning of the input string.\n \*/\n\npublic fun RegExp.reset() {\n lastIndex = 0\n}\n\n// TODO: Inherit from array or introduce asArray() extension\n\n/\*\*\n \* Represents the return value of [RegExp.exec].\n \*/\n\n@Suppress("\nNOT\_DOCUMENTED\n")\n\npublic external interface RegExpMatch {\n public val index: Int\n public val input: String\n public val length: Int\n}\n\n/\*\*\n \* Returns the entire text matched by [RegExp.exec] if the [index] parameter is 0, or the text matched by the capturing parenthesis\n \* at the given index.\n \*/\n\npublic inline operator fun RegExpMatch.get(index: Int): String? = asDynamic()[index]\n\n/\*\*\n \* Converts the result of [RegExp.exec] to an array where the first element contains the entire matched text and each subsequent\n

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* element is the text matched by each capturing parenthesis.\n *\npublic inline fun RegExpMatch.asArray():
Array<out String?> = unsafeCast<Array<out String?>>()\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\npackage kotlin.sequences\n\ninternal actual class
ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>) : Sequence<T> {\n    private var
sequenceRef: Sequence<T>? = sequence\n\n    actual override fun iterator(): Iterator<T> {\n        val sequence =
sequenceRef ?: throw IllegalStateException("This sequence can be consumed only once.")\n        sequenceRef =
null\n        return sequence.iterator()\n    }\n}\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the
license/LICENSE.txt file.\n *\n\npackage kotlin.text\n\n/**\n * The exception thrown when a character encoding
or decoding error occurs.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
actual open class CharacterCodingException(message: String?) : Exception(message) {\n    actual constructor() :
this(null)\n}\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.text\n\n/**\n * A mutable sequence of characters.\n *\n * String builder can be used to
efficiently perform multiple string manipulation operations.\n *\npublic actual class StringBuilder actual
constructor(content: String) : Appendable, CharSequence {\n    /**\n     * Constructs an empty string builder with
the specified initial [capacity].\n     *\n     * In Kotlin/JS implementation of StringBuilder the initial
capacity has no effect on the further performance of operations.\n     *\n     actual constructor(capacity: Int) : this()
{\n    }\n\n    /** Constructs a string builder that contains the same characters as the specified [content] char
sequence.\n     *\n     actual constructor(content: CharSequence) : this(content.toString()) {\n    }\n\n    /** Constructs an
empty string builder.\n     *\n     actual constructor() : this("")\n\n     private var string: String = if (content !==
undefined) content else ""\n\n     actual override val length: Int\n         get() = string.asDynamic().length\n\n     actual
override fun get(index: Int): Char =\n         string.getOrElse(index) { throw IndexOutOfBoundsException("index:
$index, length: $length")} }\n\n     actual override fun subSequence(startIndex: Int, endIndex: Int): CharSequence =
string.substring(startIndex, endIndex)\n\n     actual override fun append(value: Char): StringBuilder {\n         string +=
value\n         return this\n     }\n\n     actual override
fun append(value: CharSequence?): StringBuilder {\n         string += value.toString()\n         return this\n     }\n\n
actual override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder =\n         this.appendRange(value ?: "null", startIndex, endIndex)\n\n     /**\n     * Reverses the contents of this string builder
and returns this instance.\n     *\n     * Surrogate pairs included in this string builder are treated as single
characters.\n     * Therefore, the order of the high-low surrogates is never reversed.\n     *\n     * Note that the reverse
operation may produce new surrogate pairs that were unpaired low-surrogates and high-surrogates before the
operation.\n     * For example, reversing `"\uDC00\uD800"` produces `"\uD800\uDC00"` which is a valid
surrogate pair.\n     *\n     actual fun reverse(): StringBuilder {\n         var reversed = ""\n         var index =
string.length - 1\n         while (index >= 0) {\n             val low = string[index--]\n             if
(low.isLowSurrogate() && index >= 0) {\n                 val high = string[index--]\n                 if
(high.isHighSurrogate()) {\n                     reversed = reversed + high + low\n                 } else {\n                    
reversed = reversed + low + high\n                 }\n             } else {\n                 reversed += low\n             }\n         }\n         string =
reversed\n         return this\n     }\n\n     /**\n     * Appends the string representation of the specified object [value] to
this string builder and returns this instance.\n     *\n     * The overall effect is exactly as if the [value] were converted
to a string by the `value.toString()` method,\n     * and then that string was appended to this string builder.\n     *\n     actual fun append(value: Any?): StringBuilder {\n         string += value.toString()\n         return this\n     }\n\n     /**\n     * Appends the string representation of the specified boolean [value] to this string
builder and returns this instance.\n     *\n     * The overall effect is exactly as if the [value] were converted to a
string by the `value.toString()` method,\n     * and then that string was appended to this string builder.\n     *\n     @SinceKotlin("1.3")\n     actual fun append(value: Boolean): StringBuilder {\n         string += value\n         return

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this\n }\n\n /**\n * Appends characters in the specified character array [value] to this string builder and
returns this instance.\n *\n * Characters are appended in order, starting at the index 0.\n */\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun append(value:
CharArray): StringBuilder {\n @OptIn(ExperimentalStdlibApi::class)\n string += value.concatToString()\n
return this\n }\n\n @Deprecated("Provided for binary compatibility.", level =
DeprecationLevel.HIDDEN)\n fun append(value: String): StringBuilder = append(value)\n\n
/**\n * Appends the specified string [value] to this string builder and returns this instance.\n *\n * If [value]
is `null`, then the four characters `"\null"` are appended.\n */\n @SinceKotlin("1.3")\n actual fun
append(value: String?): StringBuilder {\n this.string += value ?: "\null"\n return this\n }\n\n /**\n *
Returns the current capacity of this string builder.\n *\n * The capacity is the maximum length this string
builder can have before an allocation occurs.\n *\n * In Kotlin/JS implementation of StringBuilder the value
returned from this method may not indicate the actual size of the backing storage.\n */\n
@SinceKotlin("1.3")\n// @ExperimentalStdlibApi\n @Deprecated("Obtaining StringBuilder capacity is not
supported in JS and common code.", level = DeprecationLevel.ERROR)\n actual fun capacity(): Int = length\n\n
/**\n * Ensures that the capacity of this string builder is at least equal
to the specified [minimumCapacity].\n *\n * If the current capacity is less than the [minimumCapacity], a new
backing storage is allocated with greater capacity.\n * Otherwise, this method takes no action and simply
returns.\n *\n * In Kotlin/JS implementation of StringBuilder the size of the backing storage is not extended to
comply the given [minimumCapacity],\n * thus calling this method has no effect on the further performance of
operations.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun
ensureCapacity(minimumCapacity: Int) {\n }\n\n /**\n * Returns the index within this string builder of the
first occurrence of the specified [string].\n *\n * Returns `-1` if the specified [string] does not occur in this
string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual
fun indexOf(string: String): Int = this.string.asDynamic().indexOf(string)\n\n
/**\n * Returns the index within this string builder of the first occurrence of the specified [string],\n *
starting at the specified [startIndex].\n *\n * Returns `-1` if the specified [string] does not occur in this string
builder starting at the specified [startIndex].\n */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun indexOf(string: String, startIndex: Int): Int =
this.string.asDynamic().indexOf(string, startIndex)\n\n /**\n * Returns the index within this string builder of the
last occurrence of the specified [string].\n * The last occurrence of empty string `""` is considered to be at the
index equal to `this.length`.\n *\n * Returns `-1` if the specified [string] does not occur in this string builder.\n
*/\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun
lastIndexOf(string: String): Int = this.string.asDynamic().lastIndexOf(string)\n\n
/**\n * Returns the index within this string builder of the last occurrence of the specified [string],\n * starting
from the specified [startIndex] toward the beginning.\n *\n * Returns `-1` if the specified [string] does not
occur in this string builder starting at the specified [startIndex].\n */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun lastIndexOf(string: String, startIndex: Int): Int {\n
if (string.isEmpty() && startIndex < 0) return -1\n return this.string.asDynamic().lastIndexOf(string,
startIndex)\n }\n\n /**\n * Inserts the string representation of the specified boolean [value] into this string
builder at the specified [index] and returns this instance.\n *\n * The overall effect is exactly as if the [value]
were converted to a string by the `value.toString()` method,\n * and then that string was inserted into this string
builder at the specified [index].\n\n
*\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string
builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun
insert(index: Int, value: Boolean): StringBuilder {\n AbstractList.checkPositionIndex(index, length)\n
string = string.substring(0, index) + value + string.substring(index)\n return this\n }\n\n /**\n * Inserts the
specified character [value] into this string builder at the specified [index] and returns this instance.\n *\n *
@throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n

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*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int,
value: Char): StringBuilder {\n    AbstractList.checkPositionIndex(index, length)\n    string =
string.substring(0, index) + value + string.substring(index)\n
    return this\n }\n\n /**\n  * Inserts characters in the specified character array [value] into this string builder
at the specified [index] and returns this instance.\n  *\n  * The inserted characters go in same order as in the
[value] character array, starting at [index].\n  *\n  * @throws IndexOutOfBoundsException if [index] is less than
zero or greater than the length of this string builder.\n  */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: CharArray): StringBuilder
{\n    AbstractList.checkPositionIndex(index, length)\n\n    @OptIn(ExperimentalStdlibApi::class)\n    string
= string.substring(0, index) + value.concatToString() + string.substring(index)\n    return this\n }\n\n /**\n
* Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and
returns this instance.\n  *\n  * The
inserted characters go in the same order as in the [value] character sequence, starting at [index].\n  *\n  *
@param index the position in this string builder to insert at.\n  * @param value the character sequence from which
characters are inserted. If [value] is `null`, then the four characters `"\n\n\n\n"` are inserted.\n  *\n  * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n  */\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value:
CharSequence?): StringBuilder {\n    AbstractList.checkPositionIndex(index, length)\n\n    string =
string.substring(0, index) + value.toString() + string.substring(index)\n    return this\n }\n\n /**\n
* Inserts the string representation of the specified object [value] into this string builder at the specified [index]
and returns
this instance.\n  *\n  * The overall effect is
exactly as if the [value] were converted to a string by the `value.toString()` method,\n  * and then that string was
inserted into this string builder at the specified [index].\n  *\n  * @throws IndexOutOfBoundsException if
[index] is less than zero or greater than the length of this string builder.\n  */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: Any?): StringBuilder {\n
    AbstractList.checkPositionIndex(index, length)\n\n    string = string.substring(0, index) + value.toString() +
string.substring(index)\n    return this\n }\n\n @Deprecated("Provided for binary compatibility.", level =
DeprecationLevel.HIDDEN)\n fun insert(index: Int, value: String): StringBuilder = insert(index, value)\n\n /**\n
* Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n  *\n  * If
[value] is `null`, then the four characters
`"\n\n\n\n"` are inserted.\n  *\n  * @throws IndexOutOfBoundsException if [index] is less than zero or greater
than the length of this string builder.\n  */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: String?): StringBuilder
{\n    AbstractList.checkPositionIndex(index, length)\n\n    val toInsert = value ?: "\n\n\n\n"    this.string =
this.string.substring(0, index) + toInsert + this.string.substring(index)\n    return this\n }\n\n /**\n
* Sets the length of this string builder to the specified [newLength].\n  *\n  * If the [newLength] is less than the
current length, it is changed to the specified [newLength].\n  * Otherwise, null characters `"\n\n\n\n"` are
appended to this string builder until its length is less than the [newLength].\n  *\n  * Note that in Kotlin/JS [set]
operator function has non-constant execution time complexity.\n  * Therefore, increasing
length of this string builder and then updating each character by index may slow down your program.\n  *\n  *
@throws IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n  */\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun setLength(newLength:
Int) {\n    if (newLength < 0) {\n        throw IllegalArgumentException("Negative new length:
$newLength.")\n    }\n\n    if (newLength <= length) {\n        string = string.substring(0, newLength)\n    }
else {\n        for (i in length until newLength) {\n            string += "\n\n\n\n"        }\n    }\n\n /**\n
* Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the
[length] (exclusive).\n  *\n  * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater
than the length of this string builder.\n  */\n

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@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun substring(startIndex:
Int): String {\n    AbstractList.checkPositionIndex(startIndex, length)\n    return string.substring(startIndex)\n
}\n\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and
up to the [endIndex] (exclusive).\n *\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when
`startIndex > endIndex`.\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n
actual fun substring(startIndex: Int, endIndex: Int): String {\n    AbstractList.checkBoundsIndexes(startIndex,
endIndex, length)\n    return string.substring(startIndex, endIndex)\n } \n\n /**\n * Attempts to reduce
storage used for this string builder.\n *\n * If the backing storage
of this string builder is larger than necessary to hold its current contents,\n * then it may be resized to become
more space efficient.\n * Calling this method may, but is not required to, affect the value of the [capacity]
property.\n *\n * In Kotlin/JS implementation of StringBuilder the size of the backing storage is always equal
to the length of the string builder.\n *\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun trimToSize() {\n } \n\n override fun toString():
String = string\n\n /**\n * Clears the content of this string builder making it empty and returns this instance.\n
*\n * @sample samples.text.Strings.clearStringBuilder\n *\n @SinceKotlin("1.3")\n public fun clear():
StringBuilder {\n    string = ""\n    return this\n } \n\n /**\n * Sets the character at the specified [index]
to the specified [value].\n *\n * @throws IndexOutOfBoundsException
if [index] is out of bounds of this string builder.\n *\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n public operator fun set(index: Int, value: Char) {\n
AbstractList.checkElementIndex(index, length)\n    string = string.substring(0, index) + value +
string.substring(index + 1)\n } \n\n /**\n * Replaces characters in the specified range of this string builder with
characters in the specified string [value] and returns this instance.\n *\n * @param startIndex the beginning
(inclusive) of the range to replace.\n * @param endIndex the end (exclusive) of the range to replace.\n *
@param value the string to replace with.\n *\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or
`startIndex > endIndex`.\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n
public fun
setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder {\n    checkReplaceRange(startIndex,
endIndex, length)\n    this.string = this.string.substring(0, startIndex) + value + this.string.substring(endIndex)\n
    return this\n } \n\n private fun checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) {\n    if
(startIndex < 0 || startIndex > length) {\n        throw IndexOutOfBoundsException("startIndex: $startIndex,
length: $length")\n    } \n    if (startIndex > endIndex) {\n        throw
IllegalArgumentException("startIndex($startIndex) > endIndex($endIndex)")\n    } \n } \n\n /**\n *
Removes the character at the specified [index] from this string builder and returns this instance.\n *\n * If the
`Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire
supplementary character.\n *\n * @param index the index of `Char` to remove.\n *\n
* @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n *\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun deleteAt(index: Int):
StringBuilder {\n    AbstractList.checkElementIndex(index, length)\n    string = string.substring(0, index) +
string.substring(index + 1)\n    return this\n } \n\n /**\n * Removes characters in the specified range from
this string builder and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to
remove.\n * @param endIndex the end (exclusive) of the range to remove.\n *\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder
indices or when `startIndex > endIndex`.\n *\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n public fun deleteRange(startIndex: Int, endIndex: Int):
StringBuilder

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    {
        checkReplaceRange(startIndex, endIndex, length)
        string = string.substring(0, startIndex) +
        string.substring(endIndex)
        return this
    }
}

/**
 * Copies characters from this string builder into the
 [destination] character array.
 * @param destination the array to copy to.
 * @param destinationOffset
 the position in the array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the range to
 copy, 0 by default.
 * @param endIndex the end (exclusive) of the range to copy, length of this string builder by
 default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or
 [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.
 * @throws
 IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified
 [destinationOffset],
 * or when that index is out of the [destination]
 array indices range.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
this.length) {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)
    AbstractList.checkBoundsIndexes(destinationOffset, destinationOffset + endIndex - startIndex, destination.size)
    var dstIndex = destinationOffset
    for (index in startIndex until endIndex) {
        destination[dstIndex++]
        = string[index]
    }
}

/**
 * Appends characters in a subarray of the specified character array
 [value] to this string builder and returns this instance.
 * Characters are appended in order, starting at
 specified [startIndex].
 * @param value the array from which characters are appended.
 * @param
 startIndex the beginning (inclusive) of the subarray to append.
 * @param
 endIndex the end (exclusive) of the subarray to append.
 * @throws IndexOutOfBoundsException or
 [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when
 `startIndex > endIndex`.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {
    @OptIn(ExperimentalStdlibApi::class)
    string += value.concatToString(startIndex, endIndex)
    return
    this
}

/**
 * Appends a subsequence of the specified character sequence [value] to this string builder
 and returns this instance.
 * @param value the character sequence from which a subsequence is
 appended.
 * @param startIndex the beginning (inclusive) of the subsequence to append.
 * @param
 endIndex the end (exclusive) of the subsequence to append.
 * @throws IndexOutOfBoundsException or
 [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence
 indices or when `startIndex > endIndex`.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun appendRange(value: CharSequence, startIndex:
Int, endIndex: Int): StringBuilder {
    val stringCsq = value.toString()
    AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)
    string +=
    stringCsq.substring(startIndex, endIndex)
    return this
}

/**
 * Inserts characters in a subarray of
 the specified character array [value] into this string builder at the specified [index] and returns this instance.
 * The inserted characters go in same order as in the [value] array, starting at [index].
 * @param index
 the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param startIndex the
 beginning (inclusive) of the subarray to insert.
 * @param endIndex the end (exclusive) of the subarray to
 insert.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or
 [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.
 * @throws
 IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun insertRange(index: Int,
value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {
    AbstractList.checkPositionIndex(index,
this.length)
    @OptIn(ExperimentalStdlibApi::class)
    string = string.substring(0, index) +
    value.concatToString(startIndex, endIndex) + string.substring(index)
    return this
}

/**
 * Inserts
 characters in a subsequence of the specified character sequence [value] into this string builder
 at the specified [index] and returns this instance.
 * The inserted characters go in the same order as in the
 [value] character sequence, starting at [index].
 * @param index the position in this string builder to insert

```



\* or when that index is out of the [destination] array indices range.\n

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE",
"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun
StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
this.length) =\n    this.toCharArray(destination, destinationOffset, startIndex, endIndex)\n\n/**\n * Appends
characters in a subarray of the specified character array [value] to this string builder and returns this instance.\n *\n *
Characters are appended in order, starting at specified [startIndex].\n *\n * @param value the array from which
characters are appended.\n *\n * @param startIndex the beginning (inclusive) of the subarray to append.\n *\n * @param
endIndex the end (exclusive) of the subarray to append.\n *\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when
[startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n
this.appendRange(value, startIndex, endIndex)\n\n/**\n * Appends a subsequence of the specified character
sequence [value] to this string builder and returns this instance.\n *\n * @param value the character sequence from
which a subsequence is appended.\n *\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n
*\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER",
"NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.appendRange(value: CharSequence,
startIndex: Int, endIndex: Int): StringBuilder =\n    this.appendRange(value, startIndex, endIndex)\n\n/**\n * Inserts
characters in a subarray of the specified character array [value] into this string builder at the specified [index] and
returns this instance.\n *\n * The inserted characters go in same order as in the [value] array, starting at [index].\n
*\n * @param index the position in this string builder to insert at.\n *\n * @param value the array from which characters
are inserted.\n *\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n *\n * @param endIndex the
end (exclusive) of the subarray to insert.\n *\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when
`startIndex > endIndex`.\n
*\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string
builder.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n
this.insertRange(index, value, startIndex, endIndex)\n\n/**\n * Inserts characters in a subsequence of the specified
character sequence [value] into this string builder at the specified [index] and returns this instance.\n *\n * The
inserted characters go in the same order as in the [value] character sequence, starting at [index].\n *\n * @param
index the position in this string builder to insert at.\n *\n * @param value the character sequence from which a
subsequence is inserted.\n *\n * @param startIndex the beginning (inclusive) of the subsequence to insert.\n *\n * @param
endIndex the end (exclusive)
of the subsequence to insert.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when
[startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex >
endIndex`.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this
string builder.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA

```

```

DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\n
this.insertRange(index, value, startIndex, endIndex)\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n *\npackage kotlin.text\n\n// actually \\s is enough to match all
whitespace, but \\xA0 added because
of different regexp behavior of Rhino used in Selenium tests\npublic actual fun Char.isWhitespace(): Boolean =
toString().matches("\\[[\\s\\\\\\xA0]"])\n\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.toLowerCase():
Char =
js("String.fromCharCode")(toInt()).toLowerCase().charCodeAt(0).unsafeCast<Int>().toChar()\n\n@kotlin.internal.
InlineOnly\npublic actual inline fun Char.toUpperCase(): Char =
js("String.fromCharCode")(toInt()).toUpperCase().charCodeAt(0).unsafeCast<Int>().toChar()\n\n/**\n * Returns
`true` if this character is a Unicode high-surrogate code unit (also known as leading-surrogate code unit).\n
*\npublic actual fun Char.isHighSurrogate(): Boolean = this in
Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE\n\n/**\n * Returns `true` if this character is a
Unicode low-surrogate code unit (also known as trailing-surrogate code unit).\n *\npublic actual fun
Char.isLowSurrogate(): Boolean = this in
Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\n", "/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n *\npackage kotlin.text\n\n/**\n *
Returns `true` if the content of this string is equal to the word `true`, ignoring case, and `false` otherwise.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\n@kotlin.internal.InlineOnly\npublic actual inline
fun String.toBoolean(): Boolean = this.toBoolean()\n\n/**\n * Returns `true` if this string is not `null` and its content
is equal to the word `true`, ignoring case, and `false` otherwise.\n *\n@SinceKotlin("1.4")\npublic actual fun
String?.toBoolean(): Boolean = this != null && this.toLowerCase() == `true`\n\n/**\n * Parses the string as a
signed [Byte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of
a number.\n *\npublic actual fun String.toByte(): Byte = toByteOrNull() ?: numberFormatError(this)\n\n/**\n *
Parses the string as a signed [Byte] number and returns the result.\n * @throws NumberFormatException if the
string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid
radix for string to number conversion.\n *\npublic actual fun String.toByte(radix: Int): Byte = toByteOrNull(radix)
?: numberFormatError(this)\n\n/**\n * Parses the string as a [Short] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n *\npublic actual fun
String.toShort(): Short = toShortOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [Short]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\npublic actual fun String.toShort(radix: Int): Short = toShortOrNull(radix) ?: numberFormatError(this)\n\n/**\n *
Parses the string as an [Int] number and returns the result.\n * @throws NumberFormatException if the string is not
a valid representation of a number.\n *\npublic actual fun String.toInt(): Int = toIntOrNull() ?:
numberFormatError(this)\n\n/**\n * Parses the string as an [Int] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n *\npublic actual fun
String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [Long]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n *\npublic actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatError(this)\n\n/**\n *
Parses

```

the string as a [Long] number and returns the result.\n \* @throws NumberFormatException if the string is not a valid representation of a number.\n \* @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n \*/\npublic actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?: numberFormatError(this)\n\n/\*\*\n \* Parses the string as a [Double] number and returns the result.\n \* @throws NumberFormatException if the string is not a valid representation of a number.\n \*/\npublic actual fun String.toDouble(): Double = (+this.asDynamic()).unsafeCast<Double>().also {\n if (it.isNaN() && !this.isNaN() || it == 0.0 && this.isBlank())\n numberFormatError(this)\n}\n\n/\*\*\n \* Parses the string as a [Float] number and returns the result.\n \* @throws NumberFormatException if the string is not a valid representation of a number.\n \*/\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toFloat(): Float = toDouble().unsafeCast<Float>()\n\n/\*\*\n \* Parses the string as a [Double] number and returns the result\n \* or `null` if the string is not a valid representation of a number.\n \*/\npublic actual fun String.toDoubleOrNull(): Double? = (+this.asDynamic()).unsafeCast<Double>().takeIf {\n !(it.isNaN() && !this.isNaN() || it == 0.0 && this.isBlank())\n}\n\n/\*\*\n \* Parses the string as a [Float] number and returns the result\n \* or `null` if the string is not a valid representation of a number.\n \*/\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()\n\n/\*\*\n \* Returns a string representation of this [Byte] value in the specified [radix].\n \* @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n \*/\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/\*\*\n \* Returns a string representation of this [Short] value in the specified [radix].\n \* @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n \*/\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual inline fun Short.toString(radix: Int): String = this.toInt().toString(radix)\n\n/\*\*\n \* Returns a string representation of this [Int] value in the specified [radix].\n \* @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n \*/\n@SinceKotlin("1.2")\npublic actual fun Int.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))\n\nprivate fun String.isNaN(): Boolean = when (this.toLowerCase()) {\n "nan", "+nan", "-nan" -> true\n else -> false\n}\n\n/\*\*\n \* Checks whether the given [radix] is valid radix for string to number and number to string conversion.\n \*/\n@PublishedApi\ninternal actual fun checkRadix(radix: Int): Int {\n if (radix !in 2..36) {\n throw IllegalArgumentException("radix \$radix was not in valid range 2..36")\n }\n return radix\n}\n\ninternal actual fun digitOf(char: Char, radix: Int): Int = when {\n char >= '0' && char <= '9' -> char - '0'\n char >= 'A' && char <= 'Z' -> char - 'A' + 10\n char >= 'a' && char <= 'z' -> char - 'a' + 10\n else -> -1\n}.let { if (it >= radix) -1 else it }\n\n"/\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n/\*\*\n \* Provides enumeration values to use to set regular expression options.\n \*/\npublic actual enum class RegexOptions(val value: String) {\n /\*\* Enables case-insensitive matching. \*/\n IGNORE\_CASE("i"),\n /\*\* Enables multiline mode. \*/\n MULTILINE("m")\n\n \* In multiline mode the expressions `^` and `\$` match just after or just before,\n \* respectively, a line terminator or the end of the input sequence.\n\n \* Represents the results from a single capturing group within a [MatchResult] of [Regex].\n \* @param value The value of captured group.\n \*/\npublic actual data class MatchGroup(actual val value: String)\n\n/\*\*\n \* Represents a compiled regular expression.\n \* Provides functions to match strings in text with a pattern, replace the found occurrences and split text around matches.\n \* For pattern syntax reference see [MDN RegExp](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/RegExp#Special\_characters\_meaning\_in\_regular\_expressions)\n \* and [http://www.w3schools.com/jsref/jsref\_obj\_regexp.asp](https://www.w3schools.com/jsref/jsref\_obj\_regexp.asp).\n \* @constructor Creates a regular expression from the specified [pattern] string and the specified set of [options].\n \*/\npublic actual class Regex actual constructor(pattern: String, options: Set<RegexOption>) {\n

```

/** Creates a regular expression from the specified [pattern] string and the specified single [option]. */
public actual constructor(pattern: String, option: RegexOptions) : this(pattern, setOf(option))
/** Creates a regular expression from the specified [pattern] string and the default options. */
public actual constructor(pattern: String) : this(pattern, emptySet())
/** The pattern string of this regular expression. */
public actual val pattern: String = pattern
/** The set of options that were used to create this regular expression. */
public actual val options: Set<RegexOption> = options.toSet()
private val nativePattern: RegExp = RegExp(pattern, options.map { it.value }.joinToString(separator = "\\") + "\\g\\")
/** Indicates whether the regular expression matches the entire [input]. */
public actual infix fun matches(input: CharSequence): Boolean {
    nativePattern.reset()
    val match = nativePattern.exec(input.toString())
    return match != null && match.index == 0 && nativePattern.lastIndex == input.length
}
/** Indicates whether the regular expression can find at least one match in the specified [input]. */
public actual fun containsMatchIn(input: CharSequence): Boolean {
    nativePattern.reset()
    return nativePattern.test(input.toString())
}
/** Returns the first match of a regular expression in the [input], beginning at the specified [startIndex].
 * @param startIndex An index to start search with, by default 0. Must be not less than zero and not greater than `input.length()`.
 * @return An instance of [MatchResult] if match was found or `null` otherwise.
 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of the [input] char sequence.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun find(input: CharSequence, startIndex: Int = 0): MatchResult? {
    if (startIndex < 0 || startIndex > input.length) throw IndexOutOfBoundsException("Start index out of bounds: $startIndex, input length: ${input.length}")
    return nativePattern.findNext(input.toString(), startIndex)
}
/** Returns a sequence of all occurrences of a regular expression within the [input] string, beginning at the specified [startIndex].
 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of the [input] char sequence.
 * @sample samples.text.Regexps.findAll
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun findAll(input: CharSequence, startIndex: Int = 0): Sequence<MatchResult> {
    if (startIndex < 0 || startIndex > input.length) throw IndexOutOfBoundsException("Start index out of bounds: $startIndex, input length: ${input.length}")
    return generateSequence({ find(input, startIndex) }, { match -> match.next() })
}
/** Attempts to match the entire [input] CharSequence against the pattern.
 * @return An instance of [MatchResult] if the entire input matches or `null` otherwise.
 */
public actual fun matchEntire(input: CharSequence): MatchResult? {
    if (pattern.startsWith('^') && pattern.endsWith('$')) return find(input)
    else return Regex("^${pattern.trimStart('^').trimEnd('$')}").find(input)
}
/** Replaces all occurrences of this regular expression in the specified [input] string with specified [replacement] expression.
 * @param replacement A replacement expression that can include substitutions. See [String.prototype.replace](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.
 */
public actual fun replace(input: CharSequence, replacement: String): String = input.toString().nativeReplace(nativePattern, replacement)
/** Replaces all occurrences of this regular expression in the specified [input] string with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a replacement for that match.
 */
public actual inline fun replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {
    var match = find(input)
    if (match == null) return input.toString()
    var lastStart = 0
    val length = input.length
    val sb = StringBuilder(length)
    do {
        val foundMatch = match!!
        sb.append(input, lastStart, foundMatch.range.start)
        sb.append(transform(foundMatch))
        lastStart = foundMatch.range.endInclusive + 1
        match = foundMatch.next()
    } while (lastStart < length && match != null)
    if

```



```

= object : AbstractList<String>() {
    override val size: Int get() = match.length
    override fun get(index: Int): String = match[index]
    override fun next(): MatchResult? = this@findNext.findNext(input, if
(range.isEmpty()) range.start + 1 else range.endInclusive + 1)
}

groupValues_!!
override fun next(): MatchResult? = this@findNext.findNext(input, if
(range.isEmpty()) range.start + 1 else range.endInclusive + 1)

/* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.text
import kotlin.js.RegExp
@kotlin.internal.InlineOnly
internal actual inline fun String.nativeIndexOf(ch: Char, fromIndex: Int): Int = nativeIndexOf(ch.toString(), fromIndex)
@kotlin.internal.InlineOnly
internal actual inline fun String.nativeLastIndexOf(ch: Char, fromIndex: Int): Int = nativeLastIndexOf(ch.toString(), fromIndex)

/* Returns `true` if this string starts with the specified prefix.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase) return nativeStartsWith(prefix, 0)
    else return regionMatches(0, prefix, 0, prefix.length, ignoreCase)
}

/* Returns `true` if a substring of this string starting at the specified offset [startIndex] starts with the specified prefix.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase) return nativeStartsWith(prefix, startIndex)
    else return regionMatches(startIndex, prefix, 0, prefix.length, ignoreCase)
}

/* Returns `true` if this string ends with the specified suffix.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase) return nativeEndsWith(suffix)
    else return regionMatches(length - suffix.length, suffix, 0, suffix.length, ignoreCase)
}

public fun String.matches(regex: String): Boolean {
    val result = this.match(regex)
    return result != null && result.size != 0
}

public actual fun CharSequence.isBlank(): Boolean = length == 0 || (if (this is String) this else this.toString()).matches("^\\s+$")

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String?.equals(other: String?, ignoreCase: Boolean = false): Boolean =
    if (this == null) other == null
    else if (!ignoreCase) this == other
    else other != null && this.toLowerCase() == other.toLowerCase()

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean = false): Boolean =
    regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)

/* Returns a copy of this string having its first letter titlecased using the rules of the default locale,
 * or the original string if it's empty or already starts with a title case letter.
 * The title case of a character is usually the same as its upper case with several exceptions.
 * The particular list of characters with the special title case form depends on the underlying platform.
 */
@sample samples.text.Strings.capitalize
public actual fun String.capitalize(): String {
    return if (isEmpty()) substring(0, 1).toUpperCase() + substring(1)
    else this
}

/* Returns a copy of this string having its first letter lowercased using the rules of the default locale,
 * or the original string if it's empty or already starts with a lower case letter.
 */
@sample samples.text.Strings.decapitalize
public actual fun String.decapitalize(): String {
    return if (isEmpty()) substring(0, 1).toLowerCase() + substring(1)
    else this
}

/* Returns a string containing this char sequence repeated [n] times.
 * @throws [IllegalArgumentException] when n < 0.
 */
public actual fun CharSequence.repeat(n: Int): String {
    require(n >= 0) { "Count 'n' must be non-negative, but was $n." }
    return when (n) {
        0 -> ""
        1 -> this.toString()
        else -> {
            var result = ""
            if (!isEmpty()) {
                var s = this.toString()
                var count = n
                while (true) {
                    if ((count and 1) == 1) result += s
                    count = count ushr 1
                    if (count == 0) break
                    s += s
                }
            }
            return result
        }
    }
}

```

```

result\n    }\n    }\n}\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"gi\" else \"g\"),
Regex.escapeReplacement(newValue))\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENT
S")\npublic actual fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"gi\" else \"g\"),
newChar.toString())\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual
fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"i\" else \"\"),
Regex.escapeReplacement(newValue))\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENT
S")\npublic actual fun String.replaceFirst(oldChar: Char, newChar:
Char, ignoreCase: Boolean = false): String =\n    nativeReplace(RegExp(Regex.escape(oldChar.toString()), if
(ignoreCase) \"i\" else \"\"), newChar.toString())\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\npackage kotlin.text\n/** Returns the negative [size] if
[throwOnMalformed] is false, throws [CharacterCodingException] otherwise.
*\n@OptIn(ExperimentalStdlibApi::class)\nprivate fun malformed(size: Int, index: Int, throwOnMalformed:
Boolean): Int {\n    if (throwOnMalformed) throw CharacterCodingException("Malformed sequence starting at
${index - 1}")\n    return -size\n}\n/** Returns code point corresponding to UTF-16 surrogate pair,\n * where
the first of the pair is the [high] and the second is in the [string] at the [index].\n * Returns zero if the pair is
malformed and [throwOnMalformed] is false.\n
*\n * @throws CharacterCodingException if the pair is malformed and [throwOnMalformed] is true.\n */\nprivate
fun codePointFromSurrogate(string: String, high: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int
{\n    if (high !in 0xD800..0xDBFF || index >= endIndex) {\n        return malformed(0, index, throwOnMalformed)\n
    }\n    val low = string[index].toInt()\n    if (low !in 0xDC00..0xDFFF) {\n        return malformed(0, index,
throwOnMalformed)\n    }\n    return 0x10000 + ((high and 0x3FF) shl 10) or (low and 0x3FF)\n}\n/**\n Returns
code point corresponding to UTF-8 sequence of two bytes,\n * where the first byte of the sequence is the
[byte1] and the second byte is in the [bytes] array at the [index].\n * Returns zero if the sequence is malformed
and [throwOnMalformed] is false.\n * @throws CharacterCodingException if the sequence of two bytes is
malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom2(bytes: ByteArray, byte1: Int,
index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n    if (byte1 and 0x1E == 0 || index >= endIndex) {\n
return malformed(0, index, throwOnMalformed)\n    }\n    val byte2 = bytes[index].toInt()\n    if (byte2 and
0xC0 != 0x80) {\n        return malformed(0, index, throwOnMalformed)\n    }\n    return (byte1 shl 6) xor byte2 xor
0xF80\n}\n/**\n Returns code point corresponding to UTF-8 sequence of three bytes,\n * where the first byte of
the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n * Returns a non-
positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is
malformed and [throwOnMalformed] is false.\n * @throws CharacterCodingException if the sequence of three
bytes is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom3(bytes: ByteArray, byte1:
Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n    if (index >= endIndex)\n    {\n        return malformed(0, index, throwOnMalformed)\n    }\n    val byte2 = bytes[index].toInt()\n    if (byte1
and 0xF == 0) {\n        if (byte2 and 0xE0 != 0xA0) {\n            // Non-shortest form\n            return malformed(0,
index, throwOnMalformed)\n        }\n    } else if (byte1 and 0xF == 0xD) {\n        if (byte2 and 0xE0 != 0x80) {\n
// Surrogate code point\n            return malformed(0, index, throwOnMalformed)\n        }\n    } else if (byte2 and
0xC0 != 0x80) {\n        return malformed(0, index, throwOnMalformed)\n    }\n    if (index + 1 == endIndex) {\n
return malformed(1, index, throwOnMalformed)\n    }\n    val byte3 = bytes[index + 1].toInt()\n    if (byte3 and
0xC0 != 0x80) {\n        return malformed(1, index, throwOnMalformed)\n    }\n    return (byte1 shl 12) xor (byte2
shl 6) xor byte3 xor -0x1E080\n}\n/**\n Returns code point corresponding to UTF-8 sequence of four bytes,\n *
where the first byte of the sequence is the [byte1]

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and the others are in the [bytes] array starting from the [index].\n \* Returns a non-positive value indicating number of bytes from [bytes] included in malformed sequence\n \* if the sequence is malformed and [throwOnMalformed] is false.\n \* @throws CharacterCodingException if the sequence of four bytes is malformed and [throwOnMalformed] is true.\n \*/\nprivate fun codePointFrom4(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n if (index >= endIndex) {\n malformed(0, index, throwOnMalformed)\n }\n val byte2 = bytes[index].toInt()\n if (byte1 and 0xF == 0x0) {\n if (byte2 and 0xF0 <= 0x80) {\n // Non-shortest form\n return malformed(0, index, throwOnMalformed)\n }\n } else if (byte1 and 0xF == 0x4) {\n if (byte2 and 0xF0 != 0x80) {\n // Out of Unicode code points domain (larger than U+10FFFF)\n return malformed(0, index, throwOnMalformed)\n }\n } else if (byte1 and 0xF > 0x4) {\n return malformed(0, index, throwOnMalformed)\n } else if (byte2 and 0xC0 != 0x80) {\n return malformed(0, index, throwOnMalformed)\n }\n if (index + 1 == endIndex) {\n return malformed(1, index, throwOnMalformed)\n }\n val byte3 = bytes[index + 1].toInt()\n if (byte3 and 0xC0 != 0x80) {\n return malformed(1, index, throwOnMalformed)\n }\n if (index + 2 == endIndex) {\n return malformed(2, index, throwOnMalformed)\n }\n val byte4 = bytes[index + 2].toInt()\n if (byte4 and 0xC0 != 0x80) {\n return malformed(2, index, throwOnMalformed)\n }\n return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor byte4 xor 0x381F80\n}\n\n/\*\*\n \* Maximum number of bytes needed to encode a single char.\n \* Code points in `0..0x7F` are encoded in a single byte.\n \* Code points in `0x80..0x7FF` are encoded in two bytes.\n \* Code points in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.\n \* Surrogate code points in `0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\n \* Code points in `0x10000..0x10FFFF` are represented by a pair of surrogate `Char`'s and are encoded in four bytes.\n \*/\nprivate const val MAX\_BYTES\_PER\_CHAR = 3\n\n/\*\*\n \* The byte sequence a malformed UTF-16 char sequence is replaced by.\n \*/\nprivate val REPLACEMENT\_BYTE\_SEQUENCE: ByteArray = arrayOf(0xEF.toByte(), 0xBF.toByte(), 0xBD.toByte())\n\n/\*\*\n \* Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\n \* @param string the string to encode.\n \* @param startIndex the start offset (inclusive) of the substring to encode.\n \* @param endIndex the end offset (exclusive) of the substring to encode.\n \* @param throwOnMalformed whether to throw on malformed char sequence or replace by the [REPLACEMENT\_BYTE\_SEQUENCE].\n \* @throws CharacterCodingException if the char sequence is malformed and [throwOnMalformed] is true.\n \*/\ninternal fun encodeUtf8(string: String, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): ByteArray {\n require(startIndex >= 0 && endIndex <= string.length && startIndex <= endIndex)\n val bytes = ByteArray((endIndex - startIndex) \* MAX\_BYTES\_PER\_CHAR)\n var byteIndex = 0\n var charIndex = startIndex\n while (charIndex < endIndex) {\n val code = string[charIndex++].toInt()\n when {\n code < 0x80 -> bytes[byteIndex++] = code.toByte()\n code < 0x800 -> {\n bytes[byteIndex++] = ((code shr 6) or 0xC0).toByte()\n bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n }\n code < 0xD800 || code >= 0xE000 -> {\n bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\n bytes[byteIndex++] = (((code shr 6) and 0x3F) or 0x80).toByte()\n bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n }\n else -> { // Surrogate char value\n val codePoint = codePointFromSurrogate(string, code, charIndex, endIndex, throwOnMalformed)\n if (codePoint <= 0) {\n bytes[byteIndex++] = REPLACEMENT\_BYTE\_SEQUENCE[0]\n bytes[byteIndex++] = REPLACEMENT\_BYTE\_SEQUENCE[1]\n bytes[byteIndex++] = REPLACEMENT\_BYTE\_SEQUENCE[2]\n } else {\n bytes[byteIndex++] = ((codePoint shr 18) or 0xF0).toByte()\n bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\n bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\n bytes[byteIndex++] = ((codePoint and 0x3F) or 0x80).toByte()\n charIndex++\n }\n }\n }\n }\n return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\n}\n\n/\*\*\n \* The character a malformed UTF-8 byte sequence is replaced

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by.\n */\nprivate const val REPLACEMENT_CHAR = "\\uFFFF'\n\n/*\n * Decodes the UTF-8 [bytes] array and
returns the resulting [String].\n *\n * @param bytes the byte array to decode.\n * @param startIndex the start offset
(inclusive) of the array to be decoded.\n * @param endIndex the end offset (exclusive) of the array to be encoded.\n
* @param throwOnMalformed whether to throw on malformed byte sequence or replace by the
[REPLACEMENT_CHAR].\n *\n * @throws CharacterCodingException if the array is malformed UTF-8 byte
sequence and [throwOnMalformed] is true.\n */\ninternal fun decodeUtf8(bytes: ByteArray, startIndex: Int,
endIndex: Int, throwOnMalformed: Boolean): String {\n    require(startIndex >= 0 && endIndex <= bytes.size &&
startIndex <= endIndex)\n    var byteIndex = startIndex\n    val stringBuilder = StringBuilder()\n    while
(byteIndex < endIndex) {\n        val byte = bytes[byteIndex++].toInt()\n        when {\n            byte >= 0 ->\n            stringBuilder.append(byte.toChar())\n
            byte shr 5 == -2 -> {\n                val code = codePointFrom2(bytes, byte, byteIndex, endIndex,
throwOnMalformed)\n                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n
                    byteIndex += -code\n                } else {\n                    stringBuilder.append(code.toChar())\n
                    byteIndex += 1\n                }\n            } byte shr 4 == -2 -> {\n                val code = codePointFrom3(bytes,
byte, byteIndex, endIndex, throwOnMalformed)\n                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n
                    byteIndex += -code\n                } else {\n                    stringBuilder.append(code.toChar())\n
                    byteIndex += 2\n                }\n            } byte shr 3 == -2 -
> {\n                val code = codePointFrom4(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n
                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -
code\n                } else {\n                    val high = (code - 0x10000) shr 10 or 0xD800\n                    val low = (code
and 0x3FF) or 0xDC00\n                    stringBuilder.append(high.toChar())\n
                    stringBuilder.append(low.toChar())\n                    byteIndex += 3\n                }\n            } else -> {\n
                malformed(0, byteIndex, throwOnMalformed)\n                stringBuilder.append(REPLACEMENT_CHAR)\n
            }\n        }\n    }\n    return stringBuilder.toString()\n}"/\n\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/*\n * Returns the detailed description of this
throwable with its stack trace.\n *\n * The detailed
description includes:\n * - the short description (see [Throwable.toString]) of this throwable;\n * - the complete
stack trace;\n * - detailed descriptions of the exceptions that were [suppressed][suppressedExceptions] in order to
deliver this exception;\n * - the detailed description of each throwable in the [Throwable.cause] chain.\n
*/\n\n@SinceKotlin("1.4")\npublic actual fun Throwable.stackTraceToString(): String =
ExceptionTraceBuilder().buildFor(this)\n\n/*\n * Prints the [detailed description][Throwable.stackTraceToString]
of this throwable to console error output.\n */\n\n@SinceKotlin("1.4")\npublic actual fun
Throwable.printStackTrace() {\n    console.error(this.stackTraceToString())\n}\n\n/*\n * Adds the specified
exception to the list of exceptions that were\n * suppressed in order to deliver this exception.\n
*/\n\n@SinceKotlin("1.4")\npublic actual fun Throwable.addSuppressed(exception: Throwable) {\n    if (this !==
exception) {\n        val suppressed = this.asDynamic()._suppressed.unsafeCast<MutableList<Throwable>?>()\n
        if (suppressed == null) {\n            this.asDynamic()._suppressed = mutableListOf(exception)\n        } else {\n
            suppressed.add(exception)\n        }\n    }\n}\n\n/*\n * Returns a list of all exceptions that were suppressed in
order to deliver this exception.\n */\n\n@SinceKotlin("1.4")\npublic actual val Throwable.suppressedExceptions:
List<Throwable>\n    get() {\n        return this.asDynamic()._suppressed?.unsafeCast<List<Throwable>>() ?:
emptyList()\n    }\n\nprivate class ExceptionTraceBuilder {\n    private val target = StringBuilder()\n    private val
visited = arrayOf<Throwable>()\n    private var topStack: String = ""\n    private var topStackStart: Int = 0\n
fun buildFor(exception: Throwable): String {\n        exception.dumpFullTrace("\\", "\\")\n        return
target.toString()\n    }\n    private fun hasSeen(exception: Throwable): Boolean = visited.any { it === exception
}\n\n    private fun Throwable.dumpFullTrace(indent: String, qualifier: String) {\n        this.dumpSelfTrace(indent,
qualifier) || return\n        var cause = this.cause\n        while (cause != null) {\n            cause.dumpSelfTrace(indent,

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"Caused by: \") || return\n        cause = cause.cause\n    }\n }\n\n private fun
Throwable.dumpSelfTrace(indent: String, qualifier: String): Boolean {\n
target.append(indent).append(qualifier)\n    val shortInfo = this.toString()\n    if (hasSeen(this)) {\n
target.append("[CIRCULAR REFERENCE, SEE ABOVE: \").append(shortInfo).append("\n\n")\n        return
false\n    }\n    visited.asDynamic().push(this)\n\n    var stack = this.asDynamic().stack as String?\n    if
(stack != null) {\n        val stackStart = stack.indexOf(shortInfo).let { if (it < 0) 0 else it + shortInfo.length }\n
        if (stackStart == 0) target.append(shortInfo).append("\n\n")\n            if (topStack.isEmpty())
{\n                topStack = stack\n                topStackStart = stackStart\n            } else {\n                stack =
dropCommonFrames(stack, stackStart)\n            }\n            if (indent.isNotEmpty()) {\n                // indent stack, but
avoid indenting exception message lines\n                val messageLines = if (stackStart == 0) 0 else 1 +
shortInfo.count { c -> c == '\n' }\n                stack.lineSequence().forEachIndexed { index: Int, line: String -> \n
                    if (index >= messageLines) target.append(indent)\n                        target.append(line).append("\n\n")\n
}\n                } else {\n                    target.append(stack).append("\n\n")\n                }\n            } else {\n
target.append(shortInfo).append("\n\n")\n            }\n\n            val suppressed = suppressedExceptions\n            if
(suppressed.isNotEmpty()) {\n                val suppressedIndent = indent + "  "\n                for (s in suppressed) {\n
                    s.dumpFullTrace(suppressedIndent, "Suppressed: \")\n                }\n            }\n            return true\n        }\n\n private fun
dropCommonFrames(stack: String, stackStart: Int): String {\n    var commonFrames: Int = 0\n    var lastBreak:
Int = 0\n    var preLastBreak: Int = 0\n    for (pos in 0 until minOf(topStack.length - topStackStart, stack.length
- stackStart)) {\n        val c = stack[stack.lastIndex - pos]\n        if (c != topStack[topStack.lastIndex - pos])
break\n        if (c == '\n') {\n            commonFrames += 1\n            preLastBreak = lastBreak\n
lastBreak = pos\n        }\n    }\n    if (commonFrames <= 1) return stack\n    while (preLastBreak > 0 &&
stack[stack.lastIndex - (preLastBreak - 1)] == '\n')\n        preLastBreak -= 1\n    // leave 1 common frame to
ease matching with the top exception stack\n    return stack.dropLast(preLastBreak) + "... and ${commonFrames
- 1} more common
stack frames skipped\n    }\n}", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic
actual enum class DurationUnit(internal val scale: Double) {\n    /**\n     * Time unit representing one nanosecond,
which is 1/1000 of a microsecond.\n     */\n    NANOSECONDS(1e0),\n    /**\n     * Time unit representing one
microsecond, which is 1/1000 of a millisecond.\n     */\n    MICROSECONDS(1e3),\n    /**\n     * Time unit
representing one millisecond, which is 1/1000 of a second.\n     */\n    MILLISECONDS(1e6),\n    /**\n     * Time
unit representing one second.\n     */\n    SECONDS(1e9),\n    /**\n     * Time unit representing one minute.\n     */\n
    MINUTES(60e9),\n    /**\n     * Time unit representing one hour.\n     */\n    HOURS(3600e9),\n    /**\n
     * Time unit representing one day, which is always equal to 24 hours.\n     */\n    DAYS(86400e9);\n}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal actual fun
convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {\n    val
sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n    return when {\n
sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)\n        sourceCompareTarget < 0 -> value /
(targetUnit.scale / sourceUnit.scale)\n        else -> value\n    }\n}\n\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport
org.w3c.performance.GlobalPerformance\nimport
org.w3c.performance.Performance\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal actual object
MonotonicTimeSource : TimeSource {\n\n    private val actualSource: TimeSource = run {\n        val isNode: Boolean = js("typeof process !== 'undefined' &&
process.versions && !!process.versions.node")\n        if (isNode)\n            HrTimeSource(js("process").unsafeCast<Process>())\n        else\n
            js("self").unsafeCast<GlobalPerformance?>()?.performance?.let(::PerformanceTimeSource)\n    }\n\n    ?

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hasClass(it) }) {\n    val toBeRemoved = cssClasses.toSet()\n    className =
className.trim().split("\\s+").toRegex().filter { it !toBeRemoved }.joinToString(" ")
return true\n
}\n\n return false\n}\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\n\n/*\n * Converts the string into a regular expression [Regex] with the default options.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(): Regex = Regex(this)\n\n/*\n * Converts the
string into a regular
expression [Regex] with the specified single [option].\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun
String.toRegex(option: RegexOption): Regex = Regex(this, option)\n\n/*\n * Converts the string into a regular
expression [Regex] with the specified set of [options].\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun
String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)\n", /*\n * Copyright 2010-2020
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Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n@file:Suppress("EXTENSI
ON_SHADOWED_BY_MEMBER")\n\npackage kotlin.text\n\nimport kotlin.contracts.*\n\n/*\n * A mutable
sequence of characters.\n */\n * String builder can be used to efficiently perform multiple string manipulation
operations.\n */\n\nexpect class StringBuilder : Appendable, CharSequence
{\n    /** Constructs an empty string builder. */\n    constructor()\n\n    /** Constructs an empty string builder with
the specified initial [capacity]. */\n    constructor(capacity: Int)\n\n    /** Constructs a string builder that contains the
same characters as the specified [content] char sequence. */\n    constructor(content: CharSequence)\n\n    /**
Constructs a string builder that contains the same characters as the specified [content] string. */\n
@SinceKotlin("1.3")\n// @ExperimentalStdlibApi\n    constructor(content: String)\n\n    override val length:
Int\n\n    override operator fun get(index: Int): Char\n\n    override fun subSequence(startIndex: Int, endIndex: Int):
CharSequence\n\n    override fun append(value: Char): StringBuilder\n    override fun append(value:
CharSequence?): StringBuilder\n    override fun append(value: CharSequence?, startIndex: Int, endIndex: Int):
StringBuilder\n\n    /**\n * Reverses the contents of this string builder and returns this
instance.\n * Surrogate pairs included in this string builder are treated as single characters.\n *
Therefore, the order of the high-low surrogates is never reversed.\n * Note that the reverse operation may
produce new surrogate pairs that were unpaired low-surrogates and high-surrogates before the operation.\n * For
example, reversing "\uDC00\uD800" produces "\uD800\uDC00" which is a valid surrogate pair.\n */\n
fun reverse(): StringBuilder\n\n    /**\n * Appends the string representation of the specified object [value] to this
string builder and returns this instance.\n * The overall effect is exactly as if the [value] were converted to a
string by the `value.toString()` method,\n * and then that string was appended to this string builder.\n */\n
fun append(value: Any?): StringBuilder\n\n    /**\n * Appends the string representation of the specified boolean
[value] to this string builder and returns
this instance.\n * The overall effect is exactly as if the [value] were converted to a string by the
`value.toString()` method,\n * and then that string was appended to this string builder.\n */\n
@SinceKotlin("1.3")\n    fun append(value: Boolean): StringBuilder\n\n    /**\n * Appends characters in the
specified character array [value] to this string builder and returns this instance.\n * Characters are appended
in order, starting at the index 0.\n */\n    @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n    fun append(value: CharArray): StringBuilder\n\n    /**\n *
Appends the specified string [value] to this string builder and returns this instance.\n * If [value] is `null`,
then the four characters `null` are appended.\n */\n    @SinceKotlin("1.3")\n    fun append(value: String?):
StringBuilder\n\n    /**\n * Returns the current capacity of this string builder.\n * The
capacity is the maximum length this string builder can have before an allocation occurs.\n */\n
@SinceKotlin("1.3")\n// @ExperimentalStdlibApi\n    @Deprecated("Obtaining StringBuilder capacity is not

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supported in JS and common code.\", level = DeprecationLevel.ERROR)\n fun capacity(): Int\n\n /**\n *
Ensures that the capacity of this string builder is at least equal to the specified [minimumCapacity].\n *\n * If
the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.\n
* Otherwise, this method takes no action and simply returns.\n *\n @SinceKotlin(\"1.4\")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun ensureCapacity(minimumCapacity: Int)\n\n /**\n *
Returns the index within this string builder of the first occurrence of the specified [string].\n *\n * Returns -1
if the specified [string] does not occur in this string builder.\n *\n @SinceKotlin(\"1.4\")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun indexOf(string: String): Int\n\n /**\n * Returns
the index within this string builder of the first occurrence of the specified [string],\n * starting at the specified
[startIndex].\n *\n * Returns -1 if the specified [string] does not occur in this string builder starting at the
specified [startIndex].\n *\n @SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n
fun indexOf(string: String, startIndex: Int): Int\n\n /**\n * Returns the index within this string builder of the last
occurrence of the specified [string].\n * The last occurrence of empty string `\"\"` is considered to be at the index
equal to `this.length`.\n *\n * Returns -1 if the specified [string] does not occur in this string builder.\n *\n
@SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun lastIndexOf(string: String):
Int\n\n /**\n
* Returns the index within this string builder of the last occurrence of the specified [string],\n * starting from the
specified [startIndex] toward the beginning.\n *\n * Returns -1 if the specified [string] does not occur in this
string builder starting at the specified [startIndex].\n *\n @SinceKotlin(\"1.4\")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun lastIndexOf(string: String, startIndex: Int): Int\n\n
/**\n * Inserts the string representation of the specified boolean [value] into this string builder at the specified
[index] and returns this instance.\n *\n * The overall effect is exactly as if the [value] were converted to a string
by the `value.toString()` method,\n * and then that string was inserted into this string builder at the specified
[index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of
this string builder.\n *\n @SinceKotlin(\"1.4\")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: Boolean): StringBuilder\n\n
/**\n * Inserts the specified character [value] into this string builder at the specified [index] and returns this
instance.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of
this string builder.\n *\n @SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun
insert(index: Int, value: Char): StringBuilder\n\n /**\n * Inserts characters in the specified character array
[value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters
go in same order as in the [value] character array, starting at [index].\n *\n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n
@SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n
fun insert(index: Int, value: CharArray): StringBuilder\n\n /**\n * Inserts characters in the specified character
sequence [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted
characters go in the same order as in the [value] character sequence, starting at [index].\n *\n * @param index
the position in this string builder to insert at.\n * @param value the character sequence from which characters are
inserted. If [value] is `null`, then the four characters `\"null\"` are inserted.\n *\n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n
@SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value:
CharSequence?): StringBuilder\n\n /**\n * Inserts the string representation of the specified object [value] into
this string builder at the specified [index] and returns
this instance.\n *\n * The overall effect is exactly as if the [value] were converted to a string by the
`value.toString()` method,\n * and then that string was inserted into this string builder at the specified [index].\n
*\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string
builder.\n *\n @SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun
insert(index: Int, value: Any?): StringBuilder\n\n /**\n * Inserts the string [value] into this string builder at the

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specified [index] and returns this instance.\n * If [value] is `null`, then the four characters `"\u0000"` are
inserted.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of
this string builder.\n * @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun
insert(index: Int, value: String?): StringBuilder\n\n    /**\n * Sets the length of this string builder to the specified [newLength].\n * If the [newLength] is
less than the current length, it is changed to the specified [newLength].\n * Otherwise, null characters `"\u0000"`
are appended to this string builder until its length is less than the [newLength].\n * Note that in Kotlin/JS
[set] operator function has non-constant execution time complexity.\n * Therefore, increasing length of this string
builder and then updating each character by index may slow down your program.\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n * @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun setLength(newLength:
Int)\n\n    /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive)
and up to the [length] (exclusive).\n * @throws IndexOutOfBoundsException
if [startIndex] is less than zero or greater than the length of this string builder.\n * @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun substring(startIndex: Int): String\n\n    /**\n * Returns
a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex]
(exclusive).\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex]
or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n * @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun substring(startIndex: Int,
endIndex: Int): String\n\n    /**\n * Attempts to reduce storage used for this string builder.\n * If the
backing storage of this string builder is larger than necessary to hold its current contents,\n * then it may be
resized to become more space efficient.\n * Calling this
method may, but is not required to, affect the value of the [capacity] property.\n * @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun trimToSize()\n\n    /**\n * Clears the content of this
string builder making it empty and returns this instance.\n * @sample samples.text.Strings.clearStringBuilder\n * @SinceKotlin("1.3")\n public expect fun StringBuilder.clear(): StringBuilder\n\n    /**\n * Sets the character at
the specified [index] to the specified [value].\n * @throws IndexOutOfBoundsException if [index] is out of
bounds of this string builder.\n\n * @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public expect operator fun
StringBuilder.set(index: Int, value: Char)\n\n    /**\n * Replaces characters in the specified range of this string builder
with characters in the specified string [value] and returns this instance.\n * @param startIndex the beginning
(inclusive) of the range to replace.\n * @param endIndex
the end (exclusive) of the range to replace.\n * @param value the string to replace with.\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length
of this string builder, or `startIndex > endIndex`.\n\n * @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public expect fun
StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder\n\n    /**\n * Removes the
character at the specified [index] from this string builder and returns this instance.\n * If the `Char` at the
specified [index] is part of a supplementary code point, this method does not remove the entire supplementary
character.\n * @param index the index of `Char` to remove.\n * @throws IndexOutOfBoundsException if
[index] is out of bounds of this string builder.\n\n * @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public expect fun
StringBuilder.deleteAt(index: Int): StringBuilder\n\n    /**\n * Removes characters in the specified range from this string builder and returns this instance.\n * @param
startIndex the beginning (inclusive) of the range to remove.\n * @param endIndex the end (exclusive) of the range
to remove.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out
of range of this string builder indices or when `startIndex > endIndex`.\n\n * @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public expect fun

```

`StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder`  
 Copies characters from this string builder into the [destination] character array.  
 @param destination the array to copy to.  
 @param destinationOffset the position in the array to copy to, 0 by default.  
 @param startIndex the beginning (inclusive) of the range to copy, 0 by default.  
 @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.

@throws `IndexOutOfBoundsException` or `IllegalArgumentException` when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.  
 @throws `IndexOutOfBoundsException` when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.

`StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length): CharArray`  
 Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.  
 Characters are appended in order, starting at specified [startIndex].  
 @param value the array from which characters are appended.  
 @param startIndex the beginning (inclusive) of the subarray to append.  
 @param endIndex the end (exclusive) of the subarray to append.  
 @throws `IndexOutOfBoundsException` or `IllegalArgumentException` when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.

`StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder`  
 Appends a subsequence of the specified character sequence [value] to this string builder and returns this instance.  
 @param value the character sequence from which a subsequence is appended.  
 @param startIndex the beginning (inclusive) of the subsequence to append.  
 @param endIndex the end (exclusive) of the subsequence to append.  
 @throws `IndexOutOfBoundsException` or `IllegalArgumentException` when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.

`StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder`  
 Inserts characters in a subarray of the specified character array [value] into this string builder at the specified [index] and returns this instance.  
 The inserted characters go in same order as in the [value] array, starting at [index].  
 @param index the position in this string builder to insert at.  
 @param value the array from which characters are inserted.  
 @param startIndex the beginning (inclusive) of the subarray to insert.  
 @param endIndex the end (exclusive) of the subarray to insert.  
 @throws `IndexOutOfBoundsException` or `IllegalArgumentException` when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.  
 @throws `IndexOutOfBoundsException` if [index] is less than zero or greater than the length of this string builder.

`StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder`  
 Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.  
 The inserted characters go in the same order as in the [value] character sequence, starting at [index].  
 @param index the position in this string builder to insert at.  
 @param value the character sequence from which a subsequence is inserted.  
 @param startIndex the beginning (inclusive) of the subsequence to insert.  
 @param endIndex the end (exclusive) of the subsequence to insert.  
 @throws `IndexOutOfBoundsException` or `IllegalArgumentException` when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.  
 @throws `IndexOutOfBoundsException` if [index] is less than zero or greater than the length of this string builder.

`StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder`  
 @SuppressWarnings("EXTENSION\_SHADOWED\_BY\_MEMBER")  
 @Deprecated("Use

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append(value: Any?) instead", ReplaceWith("append(value = obj)"),
DeprecationLevel.WARNING)\n\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.append(obj: Any?):
StringBuilder = this.append(obj)\n\n/**\n * Builds new string by populating newly created [StringBuilder] using
provided [builderAction]\n * and then converting it to [String].\n\n */\n@kotlin.internal.InlineOnly\npublic inline fun
buildString(builderAction: StringBuilder.() -> Unit): String {\n    contract { callsInPlace(builderAction,
InvocationKind.EXACTLY_ONCE) }\n    return StringBuilder().apply(builderAction).toString()\n}\n\n/**\n *
Builds new string by populating newly
created [StringBuilder] initialized with the given [capacity]\n * using provided [builderAction] and then converting
it to [String].\n\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun buildString(capacity: Int,
builderAction: StringBuilder.() -> Unit): String {\n    contract { callsInPlace(builderAction,
InvocationKind.EXACTLY_ONCE) }\n    return
StringBuilder(capacity).apply(builderAction).toString()\n}\n\n/**\n * Appends all arguments to the given
StringBuilder.\n\n */\npublic fun StringBuilder.append(vararg value: String?): StringBuilder {\n    for (item in
value)\n        append(item)\n    return this\n}\n\n/**\n * Appends all arguments to the given StringBuilder.\n\n
*/\npublic fun StringBuilder.append(vararg value: Any?): StringBuilder {\n    for (item in value)\n        append(item)\n    return this\n}\n\n/**\n * Appends a line feed character (`\n`) to this StringBuilder.
\n\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine():
StringBuilder = append("\n")\n\n/**\n * Appends [value] to this [StringBuilder], followed by a line feed character
(`\n`).\n\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value:
CharSequence?): StringBuilder = append(value).appendLine()\n\n/**\n * Appends [value] to this [StringBuilder],
followed by a line feed character (`\n`).\n\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: String?): StringBuilder = append(value).appendLine()\n\n/**\n * Appends [value] to
this [StringBuilder], followed by a line feed character (`\n`).\n\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value: Any?):
StringBuilder = append(value).appendLine()\n\n/**\n * Appends [value] to this [StringBuilder], followed by a line feed
character (`\n`).\n\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: CharArray):
StringBuilder = append(value).appendLine()\n\n/**\n * Appends [value] to this [StringBuilder], followed by a line feed
character (`\n`).\n\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: Char): StringBuilder = append(value).appendLine()\n\n/**\n * Appends [value] to this
[StringBuilder], followed by a line feed character (`\n`).\n\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value:
Boolean): StringBuilder = append(value).appendLine()\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n\n */\n\npackage kotlin.xml\nimport org.w3c.dom.*\n\n/**\n * Gets a
value indicating whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.\n\n */\n@SinceKotlin("1.4")\npublic val Node.isText: Boolean\n    get() = nodeType == Node.TEXT_NODE
|| nodeType == Node.CDATA_SECTION_NODE\n\n/**\n * Gets a value indicating whether this node is an
[Element].\n\n */\n@SinceKotlin("1.4")\npublic val Node.isElement: Boolean\n    get() = nodeType ==
Node.ELEMENT_NODE\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n\n */\n\npackage kotlin.xml\nimport org.w3c.dom.*\n\n/**\n * Removes all the children
from this node.\n\n */\n@SinceKotlin("1.4")\npublic fun Node.clear() {\n    while (hasChildNodes()) {\n
removeChild(firstChild!)\n    }\n}\n\n/**\n * Creates text node and append it to the element.\n\n */\n@return this
element\n\n */\n@SinceKotlin("1.4")\nfun Element.appendChild(text: String): Element {\n    appendChild(ownerDocument!!.createTextNode(text))\n    return this\n}\n\n"/*\n * Copyright 2010-2019 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use

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of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage org.w3c.dom\n\n@Deprecated(\n"Use UnionMessagePortOrWindowProxy instead.\n",\nReplaceWith(\n"UnionMessagePortOrWindowProxy\n"))\ntypealias UnionMessagePortOrWindow =\nUnionMessagePortOrWindowProxy\n\n@Deprecated(\n"Use `as` instead.\n", ReplaceWith(\n"`as`\n"))\nvar\nHTMLLinkElement.as_\n    get() = `as`\n    set(value) {\n        `as` = value\n    }\n\n@Deprecated(\n"Use `is`\ninstead.\n", ReplaceWith(\n"`is`\n"))\nvar ElementCreationOptions.is_\n    get() = `is`\n    set(value) {\n        `is` =\nvalue\n    }"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use\nof this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n*\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for\ndetails\n\npackage org.khronos.webgl\n\nimport kotlin.js.*\nimport org.w3c.css.masking.*\nimport\norg.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport\norg.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport\norg.w3c.dom.mediasource.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport\norg.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport\norg.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic\nexternal interface WebGLContextAttributes {\n    var alpha: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var depth: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var stencil: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var antialias: Boolean? /* = true */\n        get() = definedExternally\n        set(value)\n        = definedExternally\n    var premultipliedAlpha: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var preserveDrawingBuffer: Boolean? /* = false */\n        get() =\n        definedExternally\n        set(value) = definedExternally\n    var preferLowPowerToHighPerformance: Boolean? /* =\n        false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var failIfMajorPerformanceCaveat:\n        Boolean? /* = false */\n        get() = definedExternally\n        set(value) =\n        definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun WebGLContextAttributes(alpha: Boolean? =\ntrue, depth: Boolean? = true, stencil: Boolean? = false, antialias: Boolean? = true, premultipliedAlpha: Boolean? =\ntrue, preserveDrawingBuffer: Boolean? = false, preferLowPowerToHighPerformance: Boolean? = false,\nfailIfMajorPerformanceCaveat: Boolean? = false): WebGLContextAttributes {\n    val o = js("{}")\n    o["alpha"] = alpha\n    o["depth"]\n    = depth\n    o["stencil"] = stencil\n    o["antialias"] = antialias\n    o["premultipliedAlpha"] =\npremultipliedAlpha\n    o["preserveDrawingBuffer"] = preserveDrawingBuffer\n    o["preferLowPowerToHighPerformance"] = preferLowPowerToHighPerformance\n    o["failIfMajorPerformanceCaveat"] = failIfMajorPerformanceCaveat\n    return o\n}\n\npublic external abstract\nclass WebGLObject\n\n/**\n * Exposes the JavaScript\n[WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin\n\n*/\n\npublic external\nabstract class WebGLBuffer : WebGLObject\n\n/**\n * Exposes the JavaScript\n[WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin\n\n*/\n\npublic\nexternal abstract class WebGLFramebuffer : WebGLObject\n\n/**\n * Exposes the JavaScript\n[WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin\n\n*/\n\npublic external\nabstract class WebGLProgram : WebGLObject\n\n/**\n * Exposes the JavaScript\n[WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer)\nto Kotlin\n\n*/\n\npublic external abstract class WebGLRenderbuffer : WebGLObject\n\n/**\n * Exposes the\nJavaScript\n[WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin\n\n*/\n\npublic\nexternal abstract class WebGLShader : WebGLObject\n\n/**\n * Exposes the JavaScript\n[WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin\n\n*/\n\npublic\nexternal abstract class WebGLTexture : WebGLObject\n\n/**\n * Exposes the JavaScript\n[WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin\n\n*/

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*/\npublic external abstract class WebGLUniformLocation\n\n/**\n * Exposes the JavaScript
[WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin\n */\npublic
external abstract class WebGLActiveInfo {\n  open val size: Int\n  open val type: Int\n  open val name:
String\n}\n\n/**\n * Exposes the JavaScript
[WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat)
to Kotlin\n */\npublic external abstract class WebGLShaderPrecisionFormat {\n  open val rangeMin: Int\n  open
val rangeMax: Int\n  open val precision:
Int\n}\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
WebGLRenderingContextBase {\n  val canvas: HTMLCanvasElement\n  val drawingBufferWidth: Int\n  val
drawingBufferHeight: Int\n  fun getContextAttributes(): WebGLContextAttributes?\n  fun isContextLost():
Boolean\n  fun getSupportedExtensions(): Array<String>?\n  fun getExtension(name: String): dynamic\n  fun
activeTexture(texture: Int)\n  fun attachShader(program: WebGLProgram?, shader: WebGLShader?)\n  fun
bindAttribLocation(program: WebGLProgram?, index: Int, name: String)\n  fun bindBuffer(target: Int, buffer:
WebGLBuffer?)\n  fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)\n  fun
bindRenderbuffer(target:
Int, renderbuffer: WebGLRenderbuffer?)\n  fun bindTexture(target: Int, texture: WebGLTexture?)\n  fun
blendColor(red: Float, green: Float, blue: Float, alpha: Float)\n  fun blendEquation(mode: Int)\n  fun
blendEquationSeparate(modeRGB: Int, modeAlpha: Int)\n  fun blendFunc(sfactor: Int, dfactor: Int)\n  fun
blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha: Int)\n  fun bufferData(target: Int, size: Int,
usage: Int)\n  fun bufferData(target: Int, data: BufferDataSource?, usage: Int)\n  fun bufferSubData(target: Int,
offset: Int, data: BufferDataSource?)\n  fun checkFramebufferStatus(target: Int): Int\n  fun clear(mask: Int)\n
fun clearColor(red: Float, green: Float, blue: Float, alpha: Float)\n  fun clearDepth(depth: Float)\n  fun
clearStencil(s: Int)\n  fun colorMask(red: Boolean, green: Boolean, blue: Boolean, alpha: Boolean)\n  fun
compileShader(shader: WebGLShader?)\n  fun compressedTexImage2D(target: Int, level: Int,
internalformat: Int, width: Int, height: Int, border: Int, data: ArrayBufferView)\n  fun
compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format: Int, data:
ArrayBufferView)\n  fun copyTexImage2D(target: Int, level: Int, internalformat: Int, x: Int, y: Int, width: Int,
height: Int, border: Int)\n  fun copyTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, x: Int, y: Int,
width: Int, height: Int)\n  fun createBuffer(): WebGLBuffer?\n  fun createFramebuffer(): WebGLFramebuffer?\n
fun createProgram(): WebGLProgram?\n  fun createRenderbuffer(): WebGLRenderbuffer?\n  fun
createShader(type: Int): WebGLShader?\n  fun createTexture(): WebGLTexture?\n  fun cullFace(mode: Int)\n
fun deleteBuffer(buffer: WebGLBuffer?)\n  fun deleteFramebuffer(framebuffer: WebGLFramebuffer?)\n  fun
deleteProgram(program: WebGLProgram?)\n  fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?)\n
fun deleteShader(shader:
WebGLShader?)\n  fun deleteTexture(texture: WebGLTexture?)\n  fun depthFunc(func: Int)\n  fun
depthMask(flag: Boolean)\n  fun depthRange(zNear: Float, zFar: Float)\n  fun detachShader(program:
WebGLProgram?, shader: WebGLShader?)\n  fun disable(cap: Int)\n  fun disableVertexAttribArray(index: Int)\n
fun drawArrays(mode: Int, first: Int, count: Int)\n  fun drawElements(mode: Int, count: Int, type: Int, offset: Int)\n
fun enable(cap: Int)\n  fun enableVertexAttribArray(index: Int)\n  fun finish()\n  fun flush()\n  fun
framebufferRenderbuffer(target: Int, attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?)\n
fun framebufferTexture2D(target: Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int)\n  fun
frontFace(mode: Int)\n  fun generateMipmap(target: Int)\n  fun getActiveAttrib(program: WebGLProgram?,
index: Int): WebGLActiveInfo?\n  fun getActiveUniform(program: WebGLProgram?, index: Int):
WebGLActiveInfo?\n
  fun getAttachedShaders(program: WebGLProgram?): Array<WebGLShader>\n  fun
getAttribLocation(program: WebGLProgram?, name: String): Int\n  fun getBufferParameter(target: Int, pname:
Int): Any?\n  fun getParameter(pname: Int): Any?\n  fun getError(): Int\n  fun
getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int): Any?\n  fun

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getProgramParameter(program: WebGLProgram?, pname: Int): Any?\n fun getProgramInfoLog(program:
WebGLProgram?): String?\n fun getRenderbufferParameter(target: Int, pname: Int): Any?\n fun
getShaderParameter(shader: WebGLShader?, pname: Int): Any?\n fun getShaderPrecisionFormat(shaderType: Int,
precisionType: Int): WebGLShaderPrecisionFormat?\n fun getShaderInfoLog(shader: WebGLShader?): String?\n
fun getShaderSource(shader: WebGLShader?): String?\n fun getTexParameter(target: Int, pname: Int): Any?\n
fun getUniform(program: WebGLProgram?, location: WebGLUniformLocation?): Any?\n fun
getUniformLocation(program:
WebGLProgram?, name: String): WebGLUniformLocation?\n fun glVertexAttrib(index: Int, pname: Int):
Any?\n fun glVertexAttribOffset(index: Int, pname: Int): Int\n fun hint(target: Int, mode: Int)\n fun
isBuffer(buffer: WebGLBuffer?): Boolean\n fun isEnabled(cap: Int): Boolean\n fun isFramebuffer( framebuffer:
WebGLFramebuffer?): Boolean\n fun isProgram(program: WebGLProgram?): Boolean\n fun
isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean\n fun isShader(shader: WebGLShader?): Boolean\n
fun isTexture(texture: WebGLTexture?): Boolean\n fun lineWidth(width: Float)\n fun linkProgram(program:
WebGLProgram?)\n fun pixelStorei(pname: Int, param: Int)\n fun polygonOffset(factor: Float, units: Float)\n
fun readPixels(x: Int, y: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun
renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int)\n fun sampleCoverage(value:
Float, invert: Boolean)\n fun scissor(x: Int, y: Int, width: Int, height: Int)\n fun shaderSource(shader:
WebGLShader?, source: String)\n fun stencilFunc(func: Int, ref: Int, mask: Int)\n fun stencilFuncSeparate(face:
Int, func: Int, ref: Int, mask: Int)\n fun stencilMask(mask: Int)\n fun stencilMaskSeparate(face: Int, mask: Int)\n
fun stencilOp(fail: Int, zfail: Int, zpass: Int)\n fun stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int)\n fun
texImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels:
ArrayBufferView?)\n fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, source:
TexImageSource?)\n fun texParameterf(target: Int, pname: Int, param: Float)\n fun texParameteri(target: Int,
pname: Int, param: Int)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int,
format: Int, type: Int, pixels:
ArrayBufferView?)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, format: Int, type: Int,
source: TexImageSource?)\n fun uniform1f(location: WebGLUniformLocation?, x: Float)\n fun
uniform1fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform1fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform1i(location: WebGLUniformLocation?, x: Int)\n fun
uniform1iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform1iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform2f(location: WebGLUniformLocation?, x: Float, y:
Float)\n fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform2fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform2i(location: WebGLUniformLocation?, x: Int, y: Int)\n
fun uniform2iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform2iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform3f(location: WebGLUniformLocation?,
x: Float, y: Float, z: Float)\n fun uniform3fv(location: WebGLUniformLocation?, v: Float32Array)\n fun
uniform3fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform3i(location:
WebGLUniformLocation?, x: Int, y: Int, z: Int)\n fun uniform3iv(location: WebGLUniformLocation?, v:
Int32Array)\n fun uniform3iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun uniform4f(location:
WebGLUniformLocation?, x: Float, y: Float, z: Float, w: Float)\n fun uniform4fv(location:
WebGLUniformLocation?, v: Float32Array)\n fun uniform4fv(location: WebGLUniformLocation?, v:
Array<Float>)\n fun uniform4i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int, w: Int)\n fun
uniform4iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform4iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniformMatrix2fv(location: WebGLUniformLocation?,
transpose: Boolean, value: Float32Array)\n fun uniformMatrix2fv(location: WebGLUniformLocation?,
transpose: Boolean, value: Array<Float>)\n fun uniformMatrix3fv(location: WebGLUniformLocation?,
transpose: Boolean, value: Float32Array)\n fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose:
Boolean, value: Array<Float>)\n fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean,

```

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value: Float32Array)\n  fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value:
Array<Float>)\n  fun useProgram(program: WebGLProgram?)\n  fun validateProgram(program:
WebGLProgram?)\n  fun vertexAttrib1f(index: Int, x: Float)\n  fun vertexAttrib1fv(index: Int, values: dynamic)\n
  fun vertexAttrib2f(index: Int, x: Float, y: Float)\n  fun vertexAttrib2fv(index: Int, values: dynamic)\n  fun
vertexAttrib3f(index: Int, x: Float, y: Float, z: Float)\n  fun vertexAttrib3fv(index: Int, values: dynamic)\n  fun
vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float)\n  fun vertexAttrib4fv(index: Int, values: dynamic)\n
  fun vertexAttribPointer(index: Int, size: Int, type: Int, normalized: Boolean, stride: Int, offset: Int)\n  fun
viewport(x: Int, y: Int, width: Int, height: Int)\n\n  companion object {\n    val DEPTH_BUFFER_BIT: Int\n    val
STENCIL_BUFFER_BIT: Int\n    val COLOR_BUFFER_BIT: Int\n    val POINTS: Int\n    val LINES:
Int\n    val LINE_LOOP: Int\n    val LINE_STRIP: Int\n    val TRIANGLES: Int\n    val
TRIANGLE_STRIP: Int\n    val TRIANGLE_FAN: Int\n    val ZERO: Int\n    val ONE: Int\n    val
SRC_COLOR: Int\n    val ONE_MINUS_SRC_COLOR: Int\n    val SRC_ALPHA: Int\n    val
ONE_MINUS_SRC_ALPHA: Int\n    val DST_ALPHA: Int\n    val ONE_MINUS_DST_ALPHA: Int\n
    val DST_COLOR: Int\n    val ONE_MINUS_DST_COLOR: Int\n    val SRC_ALPHA_SATURATE: Int\n
    val FUNC_ADD: Int\n    val BLEND_EQUATION: Int\n    val BLEND_EQUATION_RGB: Int\n    val
BLEND_EQUATION_ALPHA: Int\n    val FUNC_SUBTRACT:
Int\n    val FUNC_REVERSE_SUBTRACT: Int\n    val BLEND_DST_RGB: Int\n    val
BLEND_SRC_RGB: Int\n    val BLEND_DST_ALPHA: Int\n    val BLEND_SRC_ALPHA: Int\n    val
CONSTANT_COLOR: Int\n    val ONE_MINUS_CONSTANT_COLOR: Int\n    val CONSTANT_ALPHA:
Int\n    val ONE_MINUS_CONSTANT_ALPHA: Int\n    val BLEND_COLOR: Int\n    val
ARRAY_BUFFER: Int\n    val ELEMENT_ARRAY_BUFFER: Int\n    val ARRAY_BUFFER_BINDING:
Int\n    val ELEMENT_ARRAY_BUFFER_BINDING: Int\n    val STREAM_DRAW: Int\n    val
STATIC_DRAW: Int\n    val DYNAMIC_DRAW: Int\n    val BUFFER_SIZE: Int\n    val
BUFFER_USAGE: Int\n    val CURRENT_VERTEX_ATTRIB: Int\n    val FRONT: Int\n    val BACK:
Int\n    val FRONT_AND_BACK: Int\n    val CULL_FACE: Int\n    val BLEND: Int\n    val DITHER:
Int\n    val STENCIL_TEST: Int\n    val DEPTH_TEST: Int\n    val SCISSOR_TEST: Int\n    val
POLYGON_OFFSET_FILL: Int\n
    val SAMPLE_ALPHA_TO_COVERAGE: Int\n    val SAMPLE_COVERAGE: Int\n    val NO_ERROR:
Int\n    val INVALID_ENUM: Int\n    val INVALID_VALUE: Int\n    val INVALID_OPERATION: Int\n
    val OUT_OF_MEMORY: Int\n    val CW: Int\n    val CCW: Int\n    val LINE_WIDTH: Int\n    val
ALIASED_POINT_SIZE_RANGE: Int\n    val ALIASED_LINE_WIDTH_RANGE: Int\n    val
CULL_FACE_MODE: Int\n    val FRONT_FACE: Int\n    val DEPTH_RANGE: Int\n    val
DEPTH_WRITEMASK: Int\n    val DEPTH_CLEAR_VALUE: Int\n    val DEPTH_FUNC: Int\n    val
STENCIL_CLEAR_VALUE: Int\n    val STENCIL_FUNC: Int\n    val STENCIL_FAIL: Int\n    val
STENCIL_PASS_DEPTH_FAIL: Int\n    val STENCIL_PASS_DEPTH_PASS: Int\n    val STENCIL_REF:
Int\n    val STENCIL_VALUE_MASK: Int\n    val STENCIL_WRITEMASK: Int\n    val
STENCIL_BACK_FUNC: Int\n    val STENCIL_BACK_FAIL: Int\n    val
STENCIL_BACK_PASS_DEPTH_FAIL: Int\n
    val STENCIL_BACK_PASS_DEPTH_PASS: Int\n    val STENCIL_BACK_REF: Int\n    val
STENCIL_BACK_VALUE_MASK: Int\n    val STENCIL_BACK_WRITEMASK: Int\n    val VIEWPORT:
Int\n    val SCISSOR_BOX: Int\n    val COLOR_CLEAR_VALUE: Int\n    val COLOR_WRITEMASK:
Int\n    val UNPACK_ALIGNMENT: Int\n    val PACK_ALIGNMENT: Int\n    val
MAX_TEXTURE_SIZE: Int\n    val MAX_VIEWPORT_DIMS: Int\n    val SUBPIXEL_BITS: Int\n    val
RED_BITS: Int\n    val GREEN_BITS: Int\n    val BLUE_BITS: Int\n    val ALPHA_BITS: Int\n    val
DEPTH_BITS: Int\n    val STENCIL_BITS: Int\n    val POLYGON_OFFSET_UNITS: Int\n    val
POLYGON_OFFSET_FACTOR: Int\n    val TEXTURE_BINDING_2D: Int\n    val SAMPLE_BUFFERS:
Int\n    val SAMPLES: Int\n    val SAMPLE_COVERAGE_VALUE: Int\n    val
SAMPLE_COVERAGE_INVERT: Int\n    val COMPRESSED_TEXTURE_FORMATS: Int\n    val

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DONT\_CARE: Int\n     val FASTEST: Int\n     val NICEST:  
Int\n     val GENERATE\_MIPMAP\_HINT: Int\n     val BYTE: Int\n     val UNSIGNED\_BYTE: Int\n     val  
SHORT: Int\n     val UNSIGNED\_SHORT: Int\n     val INT: Int\n     val UNSIGNED\_INT: Int\n     val  
FLOAT: Int\n     val DEPTH\_COMPONENT: Int\n     val ALPHA: Int\n     val RGB: Int\n     val RGBA:  
Int\n     val LUMINANCE: Int\n     val LUMINANCE\_ALPHA: Int\n     val UNSIGNED\_SHORT\_4\_4\_4\_4:  
Int\n     val UNSIGNED\_SHORT\_5\_5\_5\_1: Int\n     val UNSIGNED\_SHORT\_5\_6\_5: Int\n     val  
FRAGMENT\_SHADER: Int\n     val VERTEX\_SHADER: Int\n     val MAX\_VERTEX\_ATTRIBS: Int\n  
val MAX\_VERTEX\_UNIFORM\_VECTORS: Int\n     val MAX\_VARYING\_VECTORS: Int\n     val  
MAX\_COMBINED\_TEXTURE\_IMAGE\_UNITS: Int\n     val MAX\_VERTEX\_TEXTURE\_IMAGE\_UNITS:  
Int\n     val MAX\_TEXTURE\_IMAGE\_UNITS: Int\n     val MAX\_FRAGMENT\_UNIFORM\_VECTORS: Int\n  
val SHADER\_TYPE: Int\n     val DELETE\_STATUS: Int\n     val LINK\_STATUS: Int\n     val  
VALIDATE\_STATUS: Int\n     val ATTACHED\_SHADERS: Int\n     val ACTIVE\_UNIFORMS: Int\n     val  
ACTIVE\_ATTRIBUTES: Int\n     val SHADING\_LANGUAGE\_VERSION: Int\n     val  
CURRENT\_PROGRAM: Int\n     val NEVER: Int\n     val LESS: Int\n     val EQUAL: Int\n     val  
LEQUAL: Int\n     val GREATER: Int\n     val NOTEQUAL: Int\n     val GEQUAL: Int\n     val ALWAYS:  
Int\n     val KEEP: Int\n     val REPLACE: Int\n     val INCR: Int\n     val DECR: Int\n     val INVERT:  
Int\n     val INCR\_WRAP: Int\n     val DECR\_WRAP: Int\n     val VENDOR: Int\n     val RENDERER: Int\n  
val VERSION: Int\n     val NEAREST: Int\n     val LINEAR: Int\n     val  
NEAREST\_MIPMAP\_NEAREST: Int\n     val LINEAR\_MIPMAP\_NEAREST: Int\n     val  
NEAREST\_MIPMAP\_LINEAR: Int\n     val LINEAR\_MIPMAP\_LINEAR: Int\n     val  
TEXTURE\_MAG\_FILTER: Int\n     val TEXTURE\_MIN\_FILTER: Int\n     val TEXTURE\_WRAP\_S: Int\n  
val TEXTURE\_WRAP\_T:  
Int\n     val TEXTURE\_2D: Int\n     val TEXTURE: Int\n     val TEXTURE\_CUBE\_MAP: Int\n     val  
TEXTURE\_BINDING\_CUBE\_MAP: Int\n     val TEXTURE\_CUBE\_MAP\_POSITIVE\_X: Int\n     val  
TEXTURE\_CUBE\_MAP\_NEGATIVE\_X: Int\n     val TEXTURE\_CUBE\_MAP\_POSITIVE\_Y: Int\n     val  
TEXTURE\_CUBE\_MAP\_NEGATIVE\_Y: Int\n     val TEXTURE\_CUBE\_MAP\_POSITIVE\_Z: Int\n     val  
TEXTURE\_CUBE\_MAP\_NEGATIVE\_Z: Int\n     val MAX\_CUBE\_MAP\_TEXTURE\_SIZE: Int\n     val  
TEXTURE0: Int\n     val TEXTURE1: Int\n     val TEXTURE2: Int\n     val TEXTURE3: Int\n     val  
TEXTURE4: Int\n     val TEXTURE5: Int\n     val TEXTURE6: Int\n     val TEXTURE7: Int\n     val  
TEXTURE8: Int\n     val TEXTURE9: Int\n     val TEXTURE10: Int\n     val TEXTURE11: Int\n     val  
TEXTURE12: Int\n     val TEXTURE13: Int\n     val TEXTURE14: Int\n     val TEXTURE15: Int\n     val  
TEXTURE16: Int\n     val TEXTURE17: Int\n     val TEXTURE18: Int\n     val TEXTURE19:  
Int\n     val TEXTURE20: Int\n     val TEXTURE21: Int\n     val TEXTURE22: Int\n     val TEXTURE23:  
Int\n     val TEXTURE24: Int\n     val TEXTURE25: Int\n     val TEXTURE26: Int\n     val TEXTURE27:  
Int\n     val TEXTURE28: Int\n     val TEXTURE29: Int\n     val TEXTURE30: Int\n     val TEXTURE31:  
Int\n     val ACTIVE\_TEXTURE: Int\n     val REPEAT: Int\n     val CLAMP\_TO\_EDGE: Int\n     val  
MIRRORED\_REPEAT: Int\n     val FLOAT\_VEC2: Int\n     val FLOAT\_VEC3: Int\n     val FLOAT\_VEC4:  
Int\n     val INT\_VEC2: Int\n     val INT\_VEC3: Int\n     val INT\_VEC4: Int\n     val BOOL: Int\n     val  
BOOL\_VEC2: Int\n     val BOOL\_VEC3: Int\n     val BOOL\_VEC4: Int\n     val FLOAT\_MAT2: Int\n  
val FLOAT\_MAT3: Int\n     val FLOAT\_MAT4: Int\n     val SAMPLER\_2D: Int\n     val SAMPLER\_CUBE:  
Int\n     val VERTEX\_ATTRIB\_ARRAY\_ENABLED: Int\n     val VERTEX\_ATTRIB\_ARRAY\_SIZE: Int\n  
val VERTEX\_ATTRIB\_ARRAY\_STRIDE:  
Int\n     val VERTEX\_ATTRIB\_ARRAY\_TYPE: Int\n     val VERTEX\_ATTRIB\_ARRAY\_NORMALIZED:  
Int\n     val VERTEX\_ATTRIB\_ARRAY\_POINTER: Int\n     val  
VERTEX\_ATTRIB\_ARRAY\_BUFFER\_BINDING: Int\n     val IMPLEMENTATION\_COLOR\_READ\_TYPE:  
Int\n     val IMPLEMENTATION\_COLOR\_READ\_FORMAT: Int\n     val COMPILE\_STATUS: Int\n     val  
LOW\_FLOAT: Int\n     val MEDIUM\_FLOAT: Int\n     val HIGH\_FLOAT: Int\n     val LOW\_INT: Int\n  
val MEDIUM\_INT: Int\n     val HIGH\_INT: Int\n     val FRAMEBUFFER: Int\n     val RENDERBUFFER:

```

Int\n    val RGBA4: Int\n    val RGB5_A1: Int\n    val RGB565: Int\n    val DEPTH_COMPONENT16:
Int\n    val STENCIL_INDEX: Int\n    val STENCIL_INDEX8: Int\n    val DEPTH_STENCIL: Int\n    val
RENDERBUFFER_WIDTH: Int\n    val RENDERBUFFER_HEIGHT: Int\n    val
RENDERBUFFER_INTERNAL_FORMAT: Int\n    val RENDERBUFFER_RED_SIZE: Int\n    val
RENDERBUFFER_GREEN_SIZE: Int\n
    val RENDERBUFFER_BLUE_SIZE: Int\n    val RENDERBUFFER_ALPHA_SIZE: Int\n    val
RENDERBUFFER_DEPTH_SIZE: Int\n    val RENDERBUFFER_STENCIL_SIZE: Int\n    val
FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n    val
FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n    val
FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n    val
FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n    val COLOR_ATTACHMENT0:
Int\n    val DEPTH_ATTACHMENT: Int\n    val STENCIL_ATTACHMENT: Int\n    val
DEPTH_STENCIL_ATTACHMENT: Int\n    val NONE: Int\n    val FRAMEBUFFER_COMPLETE: Int\n
val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n    val
FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n    val
FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n    val FRAMEBUFFER_UNSUPPORTED: Int\n
val FRAMEBUFFER_BINDING: Int\n    val RENDERBUFFER_BINDING: Int\n    val
MAX_RENDERBUFFER_SIZE: Int\n    val INVALID_FRAMEBUFFER_OPERATION: Int\n    val
UNPACK_FLIP_Y_WEBGL:
Int\n    val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n    val CONTEXT_LOST_WEBGL: Int\n
val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n    val BROWSER_DEFAULT_WEBGL: Int\n
})\n\n/*\n * Exposes the JavaScript
[WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin\n
*/\npublic external abstract class WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {\n
companion object {\n    val DEPTH_BUFFER_BIT: Int\n    val STENCIL_BUFFER_BIT: Int\n    val
COLOR_BUFFER_BIT: Int\n    val POINTS: Int\n    val LINES: Int\n    val LINE_LOOP: Int\n    val
LINE_STRIP: Int\n    val TRIANGLES: Int\n    val TRIANGLE_STRIP: Int\n    val TRIANGLE_FAN:
Int\n    val ZERO: Int\n    val ONE: Int\n    val SRC_COLOR: Int\n    val ONE_MINUS_SRC_COLOR:
Int\n    val SRC_ALPHA: Int\n    val ONE_MINUS_SRC_ALPHA: Int\n    val DST_ALPHA: Int\n    val
ONE_MINUS_DST_ALPHA:
Int\n    val DST_COLOR: Int\n    val ONE_MINUS_DST_COLOR: Int\n    val
SRC_ALPHA_SATURATE: Int\n    val FUNC_ADD: Int\n    val BLEND_EQUATION: Int\n    val
BLEND_EQUATION_RGB: Int\n    val BLEND_EQUATION_ALPHA: Int\n    val FUNC_SUBTRACT:
Int\n    val FUNC_REVERSE_SUBTRACT: Int\n    val BLEND_DST_RGB: Int\n    val
BLEND_SRC_RGB: Int\n    val BLEND_DST_ALPHA: Int\n    val BLEND_SRC_ALPHA: Int\n    val
CONSTANT_COLOR: Int\n    val ONE_MINUS_CONSTANT_COLOR: Int\n    val CONSTANT_ALPHA:
Int\n    val ONE_MINUS_CONSTANT_ALPHA: Int\n    val BLEND_COLOR: Int\n    val
ARRAY_BUFFER: Int\n    val ELEMENT_ARRAY_BUFFER: Int\n    val ARRAY_BUFFER_BINDING:
Int\n    val ELEMENT_ARRAY_BUFFER_BINDING: Int\n    val STREAM_DRAW: Int\n    val
STATIC_DRAW: Int\n    val DYNAMIC_DRAW: Int\n    val BUFFER_SIZE: Int\n    val
BUFFER_USAGE: Int\n    val CURRENT_VERTEX_ATTRIB: Int\n    val
FRONT: Int\n    val BACK: Int\n    val FRONT_AND_BACK: Int\n    val CULL_FACE: Int\n    val
BLEND: Int\n    val DITHER: Int\n    val STENCIL_TEST: Int\n    val DEPTH_TEST: Int\n    val
SCISSOR_TEST: Int\n    val POLYGON_OFFSET_FILL: Int\n    val SAMPLE_ALPHA_TO_COVERAGE:
Int\n    val SAMPLE_COVERAGE: Int\n    val NO_ERROR: Int\n    val INVALID_ENUM: Int\n    val
INVALID_VALUE: Int\n    val INVALID_OPERATION: Int\n    val OUT_OF_MEMORY: Int\n    val CW:
Int\n    val CCW: Int\n    val LINE_WIDTH: Int\n    val ALIASED_POINT_SIZE_RANGE: Int\n    val
ALIASED_LINE_WIDTH_RANGE: Int\n    val CULL_FACE_MODE: Int\n    val FRONT_FACE: Int\n

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val DEPTH\_RANGE: Int\n     val DEPTH\_WRITEMASK: Int\n     val DEPTH\_CLEAR\_VALUE: Int\n     val  
 DEPTH\_FUNC: Int\n     val STENCIL\_CLEAR\_VALUE: Int\n     val STENCIL\_FUNC: Int\n     val  
 STENCIL\_FAIL: Int\n     val STENCIL\_PASS\_DEPTH\_FAIL: Int\n  
     val STENCIL\_PASS\_DEPTH\_PASS: Int\n     val STENCIL\_REF: Int\n     val  
 STENCIL\_VALUE\_MASK: Int\n     val STENCIL\_WRITEMASK: Int\n     val STENCIL\_BACK\_FUNC:  
 Int\n     val STENCIL\_BACK\_FAIL: Int\n     val STENCIL\_BACK\_PASS\_DEPTH\_FAIL: Int\n     val  
 STENCIL\_BACK\_PASS\_DEPTH\_PASS: Int\n     val STENCIL\_BACK\_REF: Int\n     val  
 STENCIL\_BACK\_VALUE\_MASK: Int\n     val STENCIL\_BACK\_WRITEMASK: Int\n     val VIEWPORT:  
 Int\n     val SCISSOR\_BOX: Int\n     val COLOR\_CLEAR\_VALUE: Int\n     val COLOR\_WRITEMASK:  
 Int\n     val UNPACK\_ALIGNMENT: Int\n     val PACK\_ALIGNMENT: Int\n     val  
 MAX\_TEXTURE\_SIZE: Int\n     val MAX\_VIEWPORT\_DIMS: Int\n     val SUBPIXEL\_BITS: Int\n     val  
 RED\_BITS: Int\n     val GREEN\_BITS: Int\n     val BLUE\_BITS: Int\n     val ALPHA\_BITS: Int\n     val  
 DEPTH\_BITS: Int\n     val STENCIL\_BITS: Int\n     val POLYGON\_OFFSET\_UNITS: Int\n     val  
 POLYGON\_OFFSET\_FACTOR: Int\n     val TEXTURE\_BINDING\_2D:  
 Int\n     val SAMPLE\_BUFFERS: Int\n     val SAMPLES: Int\n     val SAMPLE\_COVERAGE\_VALUE:  
 Int\n     val SAMPLE\_COVERAGE\_INVERT: Int\n     val COMPRESSED\_TEXTURE\_FORMATS: Int\n  
 val DONT\_CARE: Int\n     val FASTEST: Int\n     val NICEST: Int\n     val GENERATE\_MIPMAP\_HINT:  
 Int\n     val BYTE: Int\n     val UNSIGNED\_BYTE: Int\n     val SHORT: Int\n     val UNSIGNED\_SHORT:  
 Int\n     val INT: Int\n     val UNSIGNED\_INT: Int\n     val FLOAT: Int\n     val DEPTH\_COMPONENT:  
 Int\n     val ALPHA: Int\n     val RGB: Int\n     val RGBA: Int\n     val LUMINANCE: Int\n     val  
 LUMINANCE\_ALPHA: Int\n     val UNSIGNED\_SHORT\_4\_4\_4\_4: Int\n     val  
 UNSIGNED\_SHORT\_5\_5\_5\_1: Int\n     val UNSIGNED\_SHORT\_5\_6\_5: Int\n     val  
 FRAGMENT\_SHADER: Int\n     val VERTEX\_SHADER: Int\n     val MAX\_VERTEX\_ATTRIBS: Int\n  
 val MAX\_VERTEX\_UNIFORM\_VECTORS: Int\n     val MAX\_VARYING\_VECTORS: Int\n     val  
 MAX\_COMBINED\_TEXTURE\_IMAGE\_UNITS:  
 Int\n     val MAX\_VERTEX\_TEXTURE\_IMAGE\_UNITS: Int\n     val MAX\_TEXTURE\_IMAGE\_UNITS:  
 Int\n     val MAX\_FRAGMENT\_UNIFORM\_VECTORS: Int\n     val SHADER\_TYPE: Int\n     val  
 DELETE\_STATUS: Int\n     val LINK\_STATUS: Int\n     val VALIDATE\_STATUS: Int\n     val  
 ATTACHED\_SHADERS: Int\n     val ACTIVE\_UNIFORMS: Int\n     val ACTIVE\_ATTRIBUTES: Int\n  
 val SHADING\_LANGUAGE\_VERSION: Int\n     val CURRENT\_PROGRAM: Int\n     val NEVER: Int\n  
 val LESS: Int\n     val EQUAL: Int\n     val LEQUAL: Int\n     val GREATER: Int\n     val NOTEQUAL:  
 Int\n     val GEQUAL: Int\n     val ALWAYS: Int\n     val KEEP: Int\n     val REPLACE: Int\n     val  
 INCR: Int\n     val DECR: Int\n     val INVERT: Int\n     val INCR\_WRAP: Int\n     val DECR\_WRAP: Int\n  
     val VENDOR: Int\n     val RENDERER: Int\n     val VERSION: Int\n     val NEAREST: Int\n     val  
 LINEAR: Int\n     val NEAREST\_MIPMAP\_NEAREST:  
 Int\n     val LINEAR\_MIPMAP\_NEAREST: Int\n     val NEAREST\_MIPMAP\_LINEAR: Int\n     val  
 LINEAR\_MIPMAP\_LINEAR: Int\n     val TEXTURE\_MAG\_FILTER: Int\n     val TEXTURE\_MIN\_FILTER:  
 Int\n     val TEXTURE\_WRAP\_S: Int\n     val TEXTURE\_WRAP\_T: Int\n     val TEXTURE\_2D: Int\n  
 val TEXTURE: Int\n     val TEXTURE\_CUBE\_MAP: Int\n     val TEXTURE\_BINDING\_CUBE\_MAP: Int\n  
     val TEXTURE\_CUBE\_MAP\_POSITIVE\_X: Int\n     val TEXTURE\_CUBE\_MAP\_NEGATIVE\_X: Int\n  
 val TEXTURE\_CUBE\_MAP\_POSITIVE\_Y: Int\n     val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Y: Int\n     val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Z: Int\n     val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Z: Int\n     val  
 MAX\_CUBE\_MAP\_TEXTURE\_SIZE: Int\n     val TEXTURE0: Int\n     val TEXTURE1: Int\n     val  
 TEXTURE2: Int\n     val TEXTURE3: Int\n     val TEXTURE4: Int\n     val TEXTURE5: Int\n     val  
 TEXTURE6: Int\n     val TEXTURE7: Int\n     val TEXTURE8: Int\n     val TEXTURE9:  
 Int\n     val TEXTURE10: Int\n     val TEXTURE11: Int\n     val TEXTURE12: Int\n     val TEXTURE13:  
 Int\n     val TEXTURE14: Int\n     val TEXTURE15: Int\n     val TEXTURE16: Int\n     val TEXTURE17:  
 Int\n     val TEXTURE18: Int\n     val TEXTURE19: Int\n     val TEXTURE20: Int\n     val TEXTURE21:

```

Int\n    val TEXTURE22: Int\n    val TEXTURE23: Int\n    val TEXTURE24: Int\n    val TEXTURE25:
Int\n    val TEXTURE26: Int\n    val TEXTURE27: Int\n    val TEXTURE28: Int\n    val TEXTURE29:
Int\n    val TEXTURE30: Int\n    val TEXTURE31: Int\n    val ACTIVE_TEXTURE: Int\n    val
REPEAT: Int\n    val CLAMP_TO_EDGE: Int\n    val MIRRORED_REPEAT: Int\n    val FLOAT_VEC2:
Int\n    val FLOAT_VEC3: Int\n    val FLOAT_VEC4: Int\n    val INT_VEC2: Int\n    val INT_VEC3:
Int\n    val INT_VEC4: Int\n    val BOOL: Int\n    val BOOL_VEC2: Int\n    val BOOL_VEC3: Int\n
val BOOL_VEC4: Int\n    val FLOAT_MAT2: Int\n    val FLOAT_MAT3: Int\n    val FLOAT_MAT4:
Int\n    val SAMPLER_2D: Int\n    val SAMPLER_CUBE: Int\n    val
VERTEX_ATTRIB_ARRAY_ENABLED: Int\n    val VERTEX_ATTRIB_ARRAY_SIZE: Int\n    val
VERTEX_ATTRIB_ARRAY_STRIDE: Int\n    val VERTEX_ATTRIB_ARRAY_TYPE: Int\n    val
VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\n    val VERTEX_ATTRIB_ARRAY_POINTER: Int\n
val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int\n    val
IMPLEMENTATION_COLOR_READ_TYPE: Int\n    val IMPLEMENTATION_COLOR_READ_FORMAT:
Int\n    val COMPILE_STATUS: Int\n    val LOW_FLOAT: Int\n    val MEDIUM_FLOAT: Int\n    val
HIGH_FLOAT: Int\n    val LOW_INT: Int\n    val MEDIUM_INT: Int\n    val HIGH_INT: Int\n    val
FRAMEBUFFER: Int\n    val RENDERBUFFER: Int\n    val RGBA4: Int\n    val RGB5_A1: Int\n    val
RGB565: Int\n    val DEPTH_COMPONENT16: Int\n    val STENCIL_INDEX: Int\n
    val STENCIL_INDEX8: Int\n    val DEPTH_STENCIL: Int\n    val RENDERBUFFER_WIDTH: Int\n
val RENDERBUFFER_HEIGHT: Int\n    val RENDERBUFFER_INTERNAL_FORMAT: Int\n    val
RENDERBUFFER_RED_SIZE: Int\n    val RENDERBUFFER_GREEN_SIZE: Int\n    val
RENDERBUFFER_BLUE_SIZE: Int\n    val RENDERBUFFER_ALPHA_SIZE: Int\n    val
RENDERBUFFER_DEPTH_SIZE: Int\n    val RENDERBUFFER_STENCIL_SIZE: Int\n    val
FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n    val
FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n    val
FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n    val
FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n    val COLOR_ATTACHMENT0:
Int\n    val DEPTH_ATTACHMENT: Int\n    val STENCIL_ATTACHMENT: Int\n    val
DEPTH_STENCIL_ATTACHMENT: Int\n    val NONE: Int\n    val FRAMEBUFFER_COMPLETE: Int\n
val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n    val
FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n    val
FRAMEBUFFER_INCOMPLETE_DIMENSIONS:
Int\n    val FRAMEBUFFER_UNSUPPORTED: Int\n    val FRAMEBUFFER_BINDING: Int\n    val
RENDERBUFFER_BINDING: Int\n    val MAX_RENDERBUFFER_SIZE: Int\n    val
INVALID_FRAMEBUFFER_OPERATION: Int\n    val UNPACK_FLIP_Y_WEBGL: Int\n    val
UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n    val CONTEXT_LOST_WEBGL: Int\n    val
UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n    val BROWSER_DEFAULT_WEBGL: Int\n

```

} \n \n \n /\*\* \n \* Exposes the JavaScript

```

[WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin\n
*\npublic external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit =
definedExternally) : Event {\n    open val statusMessage: String\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n\n    public external interface WebGLContextEventInit : EventInit {\n        var
statusMessage: String? /* = \"\" */\n        get() = definedExternally\n        set(value) =
definedExternally\n    }\n\n    @kotlin.internal.InlineOnly\n    public inline fun WebGLContextEventInit(statusMessage:
String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
WebGLContextEventInit {\n        val o = js(\"({})\")\n        o[\"statusMessage\"] = statusMessage\n        o[\"bubbles\"] =
bubbles\n        o[\"cancelable\"] = cancelable\n        o[\"composed\"] = composed\n        return o\n    }\n\n    /** \n * Exposes the
JavaScript [ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin\n    *\npublic

```

```

external open class ArrayBuffer(length: Int) : BufferDataSource {
    open val byteLength: Int
    fun slice(begin: Int, end: Int = definedExternally): ArrayBuffer
    companion object {
        fun isView(value: Any?): Boolean
    }
}
/** Exposes the JavaScript
[ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView)
to Kotlin
*/
public external interface ArrayBufferView : BufferDataSource {
    val buffer: ArrayBuffer
    val byteOffset: Int
    val byteLength: Int
}
/** Exposes the JavaScript
[Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin
*/
public external open class Int8Array : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Int8Array)
    constructor(array: Array<Byte>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Int8Array, offset: Int = definedExternally)
    fun set(array: Array<Byte>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Int8Array
    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}
@kotlin.internal.InlineOnly
public inline operator fun Int8Array.get(index: Int): Byte = asDynamic()[index]
@kotlin.internal.InlineOnly
public inline operator fun Int8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }
/** Exposes the JavaScript
[Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin
*/
public external open class Uint8Array : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Uint8Array)
    constructor(array: Array<Byte>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Uint8Array, offset: Int = definedExternally)
    fun set(array: Array<Byte>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Uint8Array
    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}
@kotlin.internal.InlineOnly
public inline operator fun Uint8Array.get(index: Int): Byte = asDynamic()[index]
@kotlin.internal.InlineOnly
public inline operator fun Uint8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }
/** Exposes the JavaScript
[Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin
*/
public external open class Uint8ClampedArray : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Uint8ClampedArray)
    constructor(array: Array<Byte>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Uint8ClampedArray, offset: Int = definedExternally)
    fun set(array: Array<Byte>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Uint8ClampedArray
    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}
@kotlin.internal.InlineOnly
public inline operator fun Uint8ClampedArray.get(index: Int): Byte = asDynamic()[index]
@kotlin.internal.InlineOnly
public inline operator fun Uint8ClampedArray.set(index: Int, value: Byte) { asDynamic()[index] = value }
/** Exposes the JavaScript
[Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin
*/
public external open class Int16Array : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Int16Array)
    constructor(array: Array<Short>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Int16Array, offset: Int = definedExternally)
    fun set(array: Array<Short>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Int16Array
    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}
@kotlin.internal.InlineOnly
public inline operator fun Int16Array.get(index: Int): Short = asDynamic()[index]
@kotlin.internal.InlineOnly
public inline operator fun Int16Array.set(index: Int, value: Short) { asDynamic()[index] = value }
/** Exposes the JavaScript
[Uint16Array](https://developer.mozilla.org/en/docs/Web/API/Uint16Array) to Kotlin
*/
public external open class Uint16Array : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Uint16Array)
    constructor(array: Array<Short>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:

```

```

Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Uint16Array, offset: Int = definedExternally)\n  fun set(array:
Array<Short>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int): Uint16Array\n
  companion object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@kotlin.internal.InlineOnly\npublic
inline operator fun Uint16Array.get(index: Int): Short = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic
inline operator fun Uint16Array.set(index: Int, value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the
JavaScript [Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin\n */\npublic external
open class Int32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Int32Array)\n
  constructor(array: Array<Int>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n
  override val byteLength: Int\n  fun set(array: Int32Array, offset: Int = definedExternally)\n  fun set(array:
Array<Int>, offset: Int = definedExternally)\n  fun subarray(start:
Int, end: Int): Int32Array\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n
  }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.get(index: Int): Int =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.set(index: Int, value: Int)
{ asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin\n */\npublic external open
class Uint32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Uint32Array)\n
  constructor(array: Array<Int>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n
  override val byteLength: Int\n  fun set(array: Uint32Array, offset: Int = definedExternally)\n  fun set(array:
Array<Int>, offset: Int = definedExternally)\n
  fun subarray(start: Int, end: Int): Uint32Array\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n
  }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint32Array.get(index: Int): Int =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint32Array.set(index: Int, value:
Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin\n */\npublic external open
class Float32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Float32Array)\n
  constructor(array: Array<Float>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Float32Array, offset: Int = definedExternally)\n  fun
set(array: Array<Float>, offset:
Int = definedExternally)\n  fun subarray(start: Int, end: Int): Float32Array\n\n  companion object {\n    val
BYTES_PER_ELEMENT: Int\n  }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
Float32Array.get(index: Int): Float = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
Float32Array.set(index: Int, value: Float) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin\n */\npublic external open
class Float64Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Float64Array)\n
  constructor(array: Array<Double>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Float64Array, offset: Int = definedExternally)\n
  fun set(array: Array<Double>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int):
Float64Array\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n
  }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.get(index: Int): Double =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.set(index: Int, value:
Double) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin\n */\npublic external open class
DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) :

```

```

ArrayBufferView {\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n  override val
byteLength: Int\n  fun getInt8(byteOffset: Int): Byte\n  fun getUint8(byteOffset: Int): Byte\n  fun
getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n  fun getUint16(byteOffset:
Int, littleEndian: Boolean = definedExternally): Short\n  fun getInt32(byteOffset: Int, littleEndian: Boolean =
definedExternally): Int\n  fun getUint32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\n  fun
getFloat32(byteOffset: Int, littleEndian: Boolean = definedExternally): Float\n  fun getFloat64(byteOffset: Int,
littleEndian: Boolean = definedExternally): Double\n  fun setInt8(byteOffset: Int, value: Byte)\n  fun
setUint8(byteOffset: Int, value: Byte)\n  fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean =
definedExternally)\n  fun setUint16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n
fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)\n  fun setUint32(byteOffset: Int,
value: Int, littleEndian: Boolean = definedExternally)\n  fun setFloat32(byteOffset: Int, value: Float, littleEndian:
Boolean = definedExternally)\n  fun setFloat64(byteOffset:
Int, value: Double, littleEndian: Boolean = definedExternally)\n}\n\npublic external interface
BufferDataSource\n\npublic external interface TexImageSource", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *^\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.clipboard\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.css.*\nimport
org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.mediasource.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport
org.w3c.notifications.*\nimport org.w3c.performance.*\nimport
org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external interface ClipboardEventInit : EventInit {\n  var
clipboardData: DataTransfer? /* = null */^\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ClipboardEventInit(clipboardData:
DataTransfer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
ClipboardEventInit {\n  val o = js("{}")\n  o["clipboardData"] = clipboardData\n  o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin\n */\n\npublic external
open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) : Event {\n  open
val clipboardData: DataTransfer?\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE:
Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\n/**\n * Exposes the
JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to Kotlin\n */\n\npublic external
abstract class Clipboard : EventTarget {\n  fun read(): Promise<DataTransfer>\n  fun readText():
Promise<String>\n  fun write(data: DataTransfer): Promise<Unit>\n  fun writeText(data: String):
Promise<Unit>\n}\n\npublic external interface ClipboardPermissionDescriptor {\n  var allowWithoutGesture:
Boolean? /* = false */^\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {\n  val
o = js("{}")\n  o["allowWithoutGesture"] = allowWithoutGesture\n  return o\n}", "/*\n * Copyright 2010-
2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *^\n\n// NOTE: THIS
FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage
org.w3c.dom.css\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.encryptedmedia.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport

```

```

org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external abstract class
MediaList : ItemArrayLike<String> {\n  open var mediaText: String\n  fun appendMedium(medium: String)\n
fun deleteMedium(medium: String)\n  override fun item(index: Int):
String?\n}\n\n@kotlin.internal.InlineOnly\npublic
inline operator fun MediaList.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin\n */\n\npublic external abstract
class StyleSheet {\n  open val type: String\n  open val href: String?\n  open val ownerNode:
UnionElementOrProcessingInstruction?\n  open val parentStyleSheet: StyleSheet?\n  open val title: String?\n
open val media: MediaList\n  open var disabled: Boolean\n}\n\n/**\n * Exposes the JavaScript
[CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin\n */\n\npublic external
abstract class CSSStyleSheet : StyleSheet {\n  open val ownerRule: CSSRule?\n  open val cssRules:
CSSRuleList\n  fun insertRule(rule: String, index: Int): Int\n  fun deleteRule(index: Int)\n}\n\n/**\n * Exposes the
JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin\n */\n\npublic
external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {\n  override fun item(index: Int):
StyleSheet?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun StyleSheetList.get(index: Int):
StyleSheet? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin\n */\n\npublic external interface
LinkStyle {\n  val sheet: StyleSheet?\n  get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript
[CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin\n */\n\npublic external abstract
class CSSRuleList : ItemArrayLike<CSSRule> {\n  override fun item(index: Int):
CSSRule?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSRuleList.get(index: Int): CSSRule? =
asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin\n */\n\npublic external abstract class
CSSRule {\n  open val
type: Short\n  open var cssText: String\n  open val parentRule: CSSRule?\n  open val parentStyleSheet:
CSSStyleSheet?\n\n  companion object {\n    val STYLE_RULE: Short\n    val CHARSET_RULE: Short\n
val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n    val
PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule) to Kotlin\n */\n\npublic external abstract
class CSSStyleRule : CSSRule {\n  open var selectorText: String\n  open val style:
CSSStyleDeclaration\n\n  companion object {\n    val STYLE_RULE: Short\n    val CHARSET_RULE:
Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n
val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n  }\n}\n\npublic external abstract class
CSSImportRule : CSSRule {\n  open val href: String\n  open val media: MediaList\n  open val styleSheet:
CSSStyleSheet\n\n  companion object {\n    val STYLE_RULE: Short\n    val CHARSET_RULE: Short\n
val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n    val
PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule) to
Kotlin\n */\n\npublic external abstract class CSSGroupingRule : CSSRule {\n  open val cssRules: CSSRuleList\n
fun insertRule(rule: String, index: Int): Int\n  fun deleteRule(index: Int)\n\n  companion object {\n    val
STYLE_RULE: Short\n    val CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val
MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val
MARGIN_RULE: Short\n    val NAMESPACE_RULE:
Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin\n */\n\npublic external
abstract class CSSMediaRule : CSSGroupingRule {\n  open val media: MediaList\n\n  companion object {\n

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val STYLE_RULE: Short\n    val CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val
MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val
MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin \n * \n public external
abstract class CSSPageRule : CSSGroupingRule { \n    open var selectorText: String\n    open val style:
CSSStyleDeclaration \n \n    companion object { \n        val STYLE_RULE: Short\n        val CHARSET_RULE:
Short\n        val IMPORT_RULE: Short\n        val MEDIA_RULE: Short\n        val FONT_FACE_RULE: Short\n

        val PAGE_RULE: Short\n        val MARGIN_RULE: Short\n        val NAMESPACE_RULE: Short\n
    } \n} \n \n public external abstract class CSSMarginRule : CSSRule { \n    open val name: String\n    open val style:
CSSStyleDeclaration \n \n    companion object { \n        val STYLE_RULE: Short\n        val CHARSET_RULE:
Short\n        val IMPORT_RULE: Short\n        val MEDIA_RULE: Short\n        val FONT_FACE_RULE: Short\n
        val PAGE_RULE: Short\n        val MARGIN_RULE: Short\n        val NAMESPACE_RULE: Short\n
    } \n} \n \n /** \n * Exposes the JavaScript
[CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin \n * \n public
external abstract class CSSNamespaceRule : CSSRule { \n    open val namespaceURI: String\n    open val prefix:
String \n \n    companion object { \n        val STYLE_RULE: Short\n        val CHARSET_RULE: Short\n        val
IMPORT_RULE: Short\n        val MEDIA_RULE: Short\n        val FONT_FACE_RULE: Short\n        val
PAGE_RULE: Short\n
        val MARGIN_RULE: Short\n        val NAMESPACE_RULE: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin \n * \n public
external abstract class CSSStyleDeclaration : ItemArrayLike<String> { \n    open var cssText: String\n    open val
parentRule: CSSRule? \n    open var cssFloat: String\n    open var alignContent: String\n    open var alignItems:
String\n    open var alignSelf: String\n    open var animation: String\n    open var animationDelay: String\n    open
var animationDirection: String\n    open var animationDuration: String\n    open var animationFillMode: String\n
    open var animationIterationCount: String\n    open var animationName: String\n    open var animationPlayState:
String\n    open var animationTimingFunction: String\n    open var backfaceVisibility: String\n    open var
background: String\n    open var backgroundAttachment: String\n    open var backgroundClip: String\n
        open var backgroundColor: String\n    open var backgroundImage: String\n    open var backgroundOrigin:
String\n    open var backgroundPosition: String\n    open var backgroundRepeat: String\n    open var
backgroundSize: String\n    open var border: String\n    open var borderBottom: String\n    open var
borderBottomColor: String\n    open var borderBottomLeftRadius: String\n    open var borderBottomRightRadius:
String\n    open var borderBottomStyle: String\n    open var borderBottomWidth: String\n    open var
borderCollapse: String\n    open var borderColor: String\n    open var borderImage: String\n    open var
borderImageOutset: String\n    open var borderImageRepeat: String\n    open var borderImageSlice: String\n    open
var borderImageSource: String\n    open var borderImageWidth: String\n    open var borderLeft: String\n    open var
borderLeftColor: String\n    open var borderLeftStyle: String\n    open var borderLeftWidth: String\n    open var
borderRadius: String\n    open
        var borderRight: String\n    open var borderRightColor: String\n    open var borderRightStyle: String\n    open var
borderRightWidth: String\n    open var borderSpacing: String\n    open var borderStyle: String\n    open var
borderTop: String\n    open var borderTopColor: String\n    open var borderTopLeftRadius: String\n    open var
borderTopRightRadius: String\n    open var borderTopStyle: String\n    open var borderTopWidth: String\n    open
var borderWidth: String\n    open var bottom: String\n    open var boxDecorationBreak: String\n    open var
boxShadow: String\n    open var boxSizing: String\n    open var breakAfter: String\n    open var breakBefore:
String\n    open var breakInside: String\n    open var captionSide: String\n    open var clear: String\n    open var clip:
String\n    open var color: String\n    open var columnCount: String\n    open var columnFill: String\n    open var
columnGap: String\n    open var columnRule: String\n    open var columnRuleColor: String\n

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open var columnRuleStyle: String\n open var columnRuleWidth: String\n open var columnSpan: String\n open var columnWidth: String\n open var columns: String\n open var content: String\n open var counterIncrement: String\n open var counterReset: String\n open var cursor: String\n open var direction: String\n open var display: String\n open var emptyCells: String\n open var filter: String\n open var flex: String\n open var flexBasis: String\n open var flexDirection: String\n open var flexFlow: String\n open var flexGrow: String\n open var flexShrink: String\n open var flexWrap: String\n open var font: String\n open var fontFamily: String\n open var fontFeatureSettings: String\n open var fontKerning: String\n open var fontLanguageOverride: String\n open var fontSize: String\n open var fontSizeAdjust: String\n open var fontStretch: String\n open var fontStyle: String\n open var fontSynthesis: String\n open var fontVariant: String\n open var fontVariantAlternates: String\n open var fontVariantCaps: String\n open var fontVariantEastAsian: String\n open var fontVariantLigatures: String\n open var fontVariantNumeric: String\n open var fontVariantPosition: String\n open var fontWeight: String\n open var hangingPunctuation: String\n open var height: String\n open var hyphens: String\n open var imageOrientation: String\n open var imageRendering: String\n open var imageResolution: String\n open var imeMode: String\n open var justifyContent: String\n open var left: String\n open var letterSpacing: String\n open var lineBreak: String\n open var lineHeight: String\n open var listStyle: String\n open var listStyleImage: String\n open var listStylePosition: String\n open var listStyleType: String\n open var margin: String\n open var marginBottom: String\n open var marginLeft: String\n open var marginRight: String\n open var marginTop: String\n open var mark: String\n open var markAfter: String\n open var markBefore: String\n open var marks: String\n open var marqueeDirection: String\n open var marqueePlayCount: String\n open var marqueeSpeed: String\n open var marqueeStyle: String\n open var mask: String\n open var maskType: String\n open var maxHeight: String\n open var maxWidth: String\n open var minHeight: String\n open var minWidth: String\n open var navDown: String\n open var navIndex: String\n open var navLeft: String\n open var navRight: String\n open var navUp: String\n open var objectFit: String\n open var objectPosition: String\n open var opacity: String\n open var order: String\n open var orphans: String\n open var outline: String\n open var outlineColor: String\n open var outlineOffset: String\n open var outlineStyle: String\n open var outlineWidth: String\n open var overflowWrap: String\n open var overflowX: String\n open var overflowY: String\n open var padding: String\n open var paddingBottom: String\n open var paddingLeft: String\n open var paddingRight: String\n open var paddingTop: String\n open var pageBreakAfter: String\n open var pageBreakBefore: String\n open var pageBreakInside: String\n open var perspective: String\n open var perspectiveOrigin: String\n open var phonemes: String\n open var position: String\n open var quotes: String\n open var resize: String\n open var rest: String\n open var restAfter: String\n open var restBefore: String\n open var right: String\n open var tabSize: String\n open var tableLayout: String\n open var textAlign: String\n open var textAlignLast: String\n open var textCombineUpright: String\n open var textDecoration: String\n open var textDecorationColor: String\n open var textDecorationLine: String\n open var textDecorationStyle: String\n open var textIndent: String\n open var textJustify: String\n open var textOrientation: String\n open var textOverflow: String\n open var textShadow: String\n open var textTransform: String\n open var textUnderlinePosition: String\n open var top: String\n open var transform: String\n open var transformOrigin: String\n open var transformStyle: String\n open var transition: String\n open var transitionDelay: String\n open var transitionDuration: String\n open var transitionProperty: String\n open var transitionTimingFunction: String\n open var unicodeBidi: String\n open var verticalAlign: String\n open var visibility: String\n open var voiceBalance: String\n open var voiceDuration: String\n open var voicePitch: String\n open var voicePitchRange: String\n open var voiceRate: String\n open var voiceStress: String\n open var voiceVolume: String\n open var whiteSpace: String\n open var widows: String\n open var width: String\n open var wordBreak: String\n open var wordSpacing: String\n open var wordWrap: String\n open var writingMode: String\n open var zIndex: String\n open var \_dashed\_attribute: String\n open var \_camel\_cased\_attribute: String\n open var \_webkit\_cased\_attribute: String\n fun getPropertyValue(property:

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String): String\n fun getPropertyPriority(property: String): String\n fun setProperty(property: String, value:
String, priority: String = definedExternally)\n fun setPropertyValue(property: String, value: String)\n fun
setPropertyPriority(property: String, priority: String)\n fun removeProperty(property: String): String\n override
fun item(index: Int): String\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
CSSStyleDeclaration.get(index: Int): String? = asDynamic()[index]\n\npublic external interface
ElementCSSInlineStyle {\n val style: CSSStyleDeclaration\n}\n\n/**\n * Exposes the JavaScript
[CSS](https://developer.mozilla.org/en/docs/Web/API/CSS)
to Kotlin\n\n*/\npublic external abstract class CSS {\n companion object {\n fun escape(ident: String): String\n
}\n}\n\npublic external interface UnionElementOrProcessingInstruction, "/*\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED,
DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.encryptedmedia\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport org.w3c.dom.parsing.*\nimport
org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport
org.w3c.fetch.*\nimport org.w3c.files.*\nimport
org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport
org.w3c.xhr.*\n\npublic external interface MediaKeySystemConfiguration {\n var label: String? /* = \"\" */\n
get() = definedExternally\n set(value) = definedExternally\n var initDataTypes: Array<String>? /* = arrayOf()
*/\n get() = definedExternally\n set(value) = definedExternally\n var audioCapabilities:
Array<MediaKeySystemMediaCapability>? /* = arrayOf() */\n get() = definedExternally\n set(value) =
definedExternally\n var videoCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */\n
get() = definedExternally\n set(value) = definedExternally\n var distinctiveIdentifier:
MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */\n get() = definedExternally\n
set(value) = definedExternally\n var persistentState: MediaKeysRequirement? /* =
MediaKeysRequirement.OPTIONAL */\n get() =
definedExternally\n set(value) = definedExternally\n var sessionTypes: Array<String>?\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
MediaKeySystemConfiguration(label: String? = \"\", initDataTypes: Array<String>? = arrayOf(), audioCapabilities:
Array<MediaKeySystemMediaCapability>? = arrayOf(), videoCapabilities:
Array<MediaKeySystemMediaCapability>? = arrayOf(), distinctiveIdentifier: MediaKeysRequirement? =
MediaKeysRequirement.OPTIONAL, persistentState: MediaKeysRequirement? =
MediaKeysRequirement.OPTIONAL, sessionTypes: Array<String>? = undefined): MediaKeySystemConfiguration
{\n val o = js(\"({})\")\n o[\"label\"] = label\n o[\"initDataTypes\"] = initDataTypes\n
o[\"audioCapabilities\"] = audioCapabilities\n o[\"videoCapabilities\"] = videoCapabilities\n
o[\"distinctiveIdentifier\"] = distinctiveIdentifier\n o[\"persistentState\"] = persistentState\n o[\"sessionTypes\"]
= sessionTypes\n return o\n}\n\npublic external interface MediaKeySystemMediaCapability {\n var
contentType: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var
robustness: String? /* = \"\" */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
MediaKeySystemMediaCapability(contentType: String? = \"\", robustness: String? = \"\"):
MediaKeySystemMediaCapability {\n val o = js(\"({})\")\n o[\"contentType\"] = contentType\n
o[\"robustness\"] = robustness\n return o\n}\n\npublic external abstract class MediaKeySystemAccess {\n open
val keySystem: String\n fun getConfiguration(): MediaKeySystemConfiguration\n fun createMediaKeys():
Promise<MediaKeys>\n}\n\npublic external abstract class MediaKeys {\n fun createSession(sessionType:
MediaKeySessionType = definedExternally): MediaKeySession\n fun setServerCertificate(serverCertificate:

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dynamic): Promise<Boolean>\n}\n\npublic external abstract class MediaKeySession : EventTarget {\n  open val
sessionId: String\n  open val expiration: Double\n  open val closed: Promise<Unit>\n  open val keyStatuses:
MediaKeyStatusMap\n  open var onkeystatuseschange: ((Event) -> dynamic)?\n  open var onmessage:
((MessageEvent) -> dynamic)?\n  fun generateRequest(initDataType: String, initData: dynamic): Promise<Unit>\n
  fun load(sessionId: String): Promise<Boolean>\n  fun update(response: dynamic): Promise<Unit>\n  fun close():
Promise<Unit>\n  fun remove(): Promise<Unit>\n}\n\npublic external abstract class MediaKeyStatusMap {\n
  open val size: Int\n  fun has(keyId: dynamic): Boolean\n  fun get(keyId: dynamic): Any?\n}\n\npublic external
open class MediaKeyMessageEvent(type: String, eventInitDict: MediaKeyMessageEventInit) : Event {\n  open val
messageType: MediaKeyMessageType\n  open val message: ArrayBuffer\n\n  companion object {\n    val
NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface MediaKeyMessageEventInit : EventInit {\n  var
messageType: MediaKeyMessageType?\n  get() = definedExternally\n  set(value) = definedExternally\n
  var message: ArrayBuffer?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaKeyMessageEventInit(messageType:
MediaKeyMessageType?, message: ArrayBuffer?, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): MediaKeyMessageEventInit {\n  val o = js("{}")\n  o["messageType"] =
messageType\n  o["message"] = message\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n
o["composed"] = composed\n  return o\n}\n\npublic external open class MediaEncryptedEvent(type: String,
eventInitDict: MediaEncryptedEventInit = definedExternally) :
Event {\n  open val initDataType: String\n  open val initData: ArrayBuffer?\n\n  companion object {\n    val
NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface MediaEncryptedEventInit : EventInit {\n  var
initDataType: String? /* = "" */\n  get() = definedExternally\n  set(value) = definedExternally\n  var
initData: ArrayBuffer? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaEncryptedEventInit(initDataType:
String? = "", initData: ArrayBuffer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): MediaEncryptedEventInit {\n  val o = js("{}")\n  o["initDataType"] = initDataType\n
o["initData"] = initData\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] =
composed\n  return
o\n}\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
MediaKeysRequirement {\n  companion object\n}\n\npublic inline val
MediaKeysRequirement.Companion.REQUIRED: MediaKeysRequirement get() =
"required".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val
MediaKeysRequirement.Companion.OPTIONAL: MediaKeysRequirement get() =
"optional".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val
MediaKeysRequirement.Companion.NOT_ALLOWED: MediaKeysRequirement get() = "not-
allowed".asDynamic().unsafeCast<MediaKeysRequirement>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
MediaKeySessionType {\n  companion object\n}\n\npublic inline val
MediaKeySessionType.Companion.TEMPORARY: MediaKeySessionType get() =
"temporary".asDynamic().unsafeCast<MediaKeySessionType>()\n\npublic inline val
MediaKeySessionType.Companion.PERSISTENT_LICENSE:
MediaKeySessionType get() = "persistent-license".asDynamic().unsafeCast<MediaKeySessionType>()\n\n/*
please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface MediaKeyStatus
{\n  companion object\n}\n\npublic inline val MediaKeyStatus.Companion.USABLE: MediaKeyStatus get() =
"usable".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val

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MediaKeyStatus.Companion.EXPIRED: MediaKeyStatus get() =
    \"expired\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.RELEASED: MediaKeyStatus get() =
    \"released\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.OUTPUT_RESTRICTED: MediaKeyStatus get() = \"output-
restricted\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.OUTPUT_DOWNSCALED: MediaKeyStatus get() = \"output-
downscaled\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic
inline val MediaKeyStatus.Companion.STATUS_PENDING: MediaKeyStatus get() = \"status-
pending\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.INTERNAL_ERROR: MediaKeyStatus get() = \"internal-
error\".asDynamic().unsafeCast<MediaKeyStatus>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
MediaKeyMessageType {\n    companion object\n}\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_REQUEST: MediaKeyMessageType get() = \"license-
request\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_RENEWAL: MediaKeyMessageType get() = \"license-
renewal\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_RELEASE: MediaKeyMessageType get() = \"license-
release\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.INDIVIDUALIZATION_REQUEST:
MediaKeyMessageType get() = \"individualization-
request\".asDynamic().unsafeCast<MediaKeyMessageType>()\", /*\n * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.events\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport org.w3c.dom.parsing.*\nimport
org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport
org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport
org.w3c.workers.*\nimport
org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin\n */\n\npublic external open class
UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {\n    open val view: Window?\n    open val detail: Int\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n\n    public external interface UIEventInit :
EventInit {\n        var view: Window? /* = null */\n        get() = definedExternally\n        set(value) =
definedExternally\n        var detail: Int? /* = 0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n    }\n\n    @kotlin.internal.InlineOnly\n    public inline fun UIEventInit(view: Window? = null, detail:
Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): UIEventInit {\n
val o = js(\"({})\")\n    o[\"view\"] = view\n    o[\"detail\"]
= detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return
o\n}\n\n/**\n * Exposes the JavaScript [FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent)
to Kotlin\n */\n\npublic external open class FocusEvent(type: String, eventInitDict: FocusEventInit =
definedExternally) : UIEvent {\n    open val relatedTarget: EventTarget?\n\n    companion object {\n        val
NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n\n    public external interface FocusEventInit : UIEventInit {\n        var

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relatedTarget: EventTarget? /* = null */^n    get() = definedExternally^n    set(value) =
definedExternally^n}\n\n@kotlin.internal.InlineOnly\npublic inline fun FocusEventInit(relatedTarget: EventTarget?
= null, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): FocusEventInit {\n
    val o = js("{}")\n    o["relatedTarget"] = relatedTarget\n    o["view"] = view\n    o["detail"] = detail\n
o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return
o\n}\n\n/**\n * Exposes the JavaScript [MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent)
to Kotlin\n */^npublic external open class MouseEvent(type: String, eventInitDict: MouseEventInit =
definedExternally) : UIEvent, UnionElementOrMouseEvent {\n    open val screenX: Int\n    open val screenY: Int\n
open val clientX: Int\n    open val clientY: Int\n    open val ctrlKey: Boolean\n    open val shiftKey: Boolean\n
open val altKey: Boolean\n    open val metaKey: Boolean\n    open val button: Short\n    open val buttons: Short\n
open val relatedTarget: EventTarget?\n    open val region: String?\n    open val pageX: Double\n    open val pageY:
Double\n    open val x: Double\n    open val y: Double\n    open val offsetX: Double\n    open
val offsetY: Double\n    fun getModifierState(keyArg: String): Boolean\n\n    companion object {\n        val NONE:
Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE:
Short\n    }\n}\n\npublic external interface MouseEventInit : EventModifierInit {\n    var screenX: Int? /* = 0 */^n
get() = definedExternally\n    set(value) = definedExternally\n    var screenY: Int? /* = 0 */^n    get() =
definedExternally\n    set(value) = definedExternally\n    var clientX: Int? /* = 0 */^n    get() =
definedExternally\n    set(value) = definedExternally\n    var clientY: Int? /* = 0 */^n    get() =
definedExternally\n    set(value) = definedExternally\n    var button: Short? /* = 0 */^n    get() =
definedExternally\n    set(value) = definedExternally\n    var buttons: Short? /* = 0 */^n    get() =
definedExternally\n    set(value) = definedExternally\n    var relatedTarget: EventTarget? /* = null */^n
get() = definedExternally\n    set(value) = definedExternally\n    var region: String? /* = null */^n    get() =
definedExternally\n    set(value) = definedExternally}\n\n@kotlin.internal.InlineOnly\npublic inline fun
MouseEventInit(screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons:
Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean?
= false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,
modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean?
= false): MouseEventInit {\n    val o = js("{}")\n    o["screenX"] = screenX\n    o["screenY"] = screenY\n
o["clientX"] = clientX\n    o["clientY"] = clientY\n    o["button"] = button\n    o["buttons"] = buttons\n
o["relatedTarget"] = relatedTarget\n    o["region"] = region\n    o["ctrlKey"] = ctrlKey\n    o["shiftKey"] =
shiftKey\n    o["altKey"] = altKey\n    o["metaKey"] = metaKey\n    o["modifierAltGraph"] =
modifierAltGraph\n    o["modifierCapsLock"] = modifierCapsLock\n    o["modifierFn"] = modifierFn\n
o["modifierFnLock"] = modifierFnLock\n    o["modifierHyper"] = modifierHyper\n    o["modifierNumLock"] =
modifierNumLock\n    o["modifierScrollLock"] = modifierScrollLock\n    o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n    o["modifierSymbolLock"] = modifierSymbolLock\n    o["view"] =
view\n    o["detail"] = detail\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n
o["composed"] = composed\n    return o\n}\n\npublic external interface EventModifierInit : UIEventInit {\n    var
ctrlKey: Boolean? /* = false */^n    get() = definedExternally\n    set(value) = definedExternally\n    var
shiftKey: Boolean? /* = false */^n    get() = definedExternally\n    set(value) = definedExternally\n    var
altKey: Boolean? /* = false */^n    get() = definedExternally\n    set(value) = definedExternally\n    var
metaKey: Boolean? /* = false */^n    get() = definedExternally\n    set(value) = definedExternally\n    var
modifierAltGraph: Boolean? /* = false */^n    get() = definedExternally\n    set(value) = definedExternally\n
var modifierCapsLock: Boolean? /* = false */^n    get() = definedExternally\n    set(value) =
definedExternally\n    var modifierFn: Boolean? /* = false */^n    get() = definedExternally\n    set(value) =

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definedExternally\n    var modifierFnLock: Boolean? /* = false */\n        get()
= definedExternally\n        set(value) = definedExternally\n    var modifierHyper: Boolean? /* = false */\n        get()
= definedExternally\n        set(value) = definedExternally\n    var modifierNumLock: Boolean? /* = false */\n
get() = definedExternally\n        set(value) = definedExternally\n    var modifierScrollLock: Boolean? /* = false */\n
    get() = definedExternally\n        set(value) = definedExternally\n    var modifierSuper: Boolean? /* = false */\n
    get() = definedExternally\n        set(value) = definedExternally\n    var modifierSymbol: Boolean? /* = false */\n
    get() = definedExternally\n        set(value) = definedExternally\n    var modifierSymbolLock: Boolean? /* = false
*/\n    get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun EventModifierInit(ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false,
metaKey: Boolean? = false, modifierAltGraph:
Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? =
false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): EventModifierInit {\n    val o = js("{}")\n    o["ctrlKey"] = ctrlKey\n    o["shiftKey"] = shiftKey\n
o["altKey"] = altKey\n    o["metaKey"] = metaKey\n    o["modifierAltGraph"] = modifierAltGraph\n
o["modifierCapsLock"] = modifierCapsLock\n    o["modifierFn"] = modifierFn\n    o["modifierFnLock"] =
modifierFnLock\n    o["modifierHyper"] = modifierHyper\n    o["modifierNumLock"] = modifierNumLock\n
o["modifierScrollLock"] = modifierScrollLock\n    o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"]
= modifierSymbol\n    o["modifierSymbolLock"] = modifierSymbolLock\n    o["view"] = view\n    o["detail"]
= detail\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return
o}\n\n/**\n * Exposes the JavaScript [WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent)
to Kotlin\n */\npublic external open class WheelEvent(type: String, eventInitDict: WheelEventInit =
definedExternally) : MouseEvent {\n    open val deltaX: Double\n    open val deltaY: Double\n    open val deltaZ:
Double\n    open val deltaMode: Int\n\n    companion object {\n        val DOM_DELTA_PIXEL: Int\n        val
DOM_DELTA_LINE: Int\n        val DOM_DELTA_PAGE: Int\n        val NONE: Short\n        val
CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface WheelEventInit : MouseEventInit {\n    var deltaX: Double? /* = 0.0 */\n        get()
= definedExternally\n
    set(value) = definedExternally\n    var deltaY: Double? /* = 0.0 */\n        get() = definedExternally\n
    set(value) = definedExternally\n    var deltaZ: Double? /* = 0.0 */\n        get() = definedExternally\n
    set(value) =
definedExternally\n    var deltaMode: Int? /* = 0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun WheelEventInit(deltaX: Double? = 0.0,
deltaY: Double? = 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX: Int? = 0, screenY: Int? = 0, clientX:
Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region:
String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean?
= false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false,
modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock:
Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol:
Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\n    val o =
js("{}")\n    o["deltaX"] = deltaX\n    o["deltaY"] = deltaY\n    o["deltaZ"] = deltaZ\n    o["deltaMode"] =
deltaMode\n    o["screenX"] = screenX\n    o["screenY"] = screenY\n    o["clientX"] = clientX\n    o["clientY"]
= clientY\n    o["button"] = button\n    o["buttons"] = buttons\n    o["relatedTarget"] = relatedTarget\n
o["region"] = region\n    o["ctrlKey"] = ctrlKey\n    o["shiftKey"] = shiftKey\n    o["altKey"] = altKey\n
o["metaKey"] = metaKey\n    o["modifierAltGraph"] = modifierAltGraph\n    o["modifierCapsLock"] =
modifierCapsLock\n    o["modifierFn"] = modifierFn\n    o["modifierFnLock"] = modifierFnLock\n

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    o["modifierHyper"] = modifierHyper\n    o["modifierNumLock"] = modifierNumLock\n
o["modifierScrollLock"] = modifierScrollLock\n    o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n    o["modifierSymbolLock"] = modifierSymbolLock\n    o["view"] =
view\n    o["detail"] = detail\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] =
composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to Kotlin\n *\npublic external open class
InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) : UIEvent {\n    open val data: String\n
open val isComposing: Boolean\n\n    companion object {\n        val NONE: Short\n        val
CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface InputEventInit : UIEventInit {\n    var data: String? /* = \"\" */\n
    get() = definedExternally\n    set(value) = definedExternally\n    var isComposing: Boolean? /* = false */\n
    get() = definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
InputEventInit(data: String? = \"\", isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): InputEventInit {\n    val o =
js(\"({})\")\n    o[\"data\"] = data\n    o[\"isComposing\"] = isComposing\n    o[\"view\"] = view\n    o[\"detail\"] =
detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return
o\n}\n\n/**\n * Exposes the JavaScript
[KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\n *\npublic external
open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {\n
open val key: String\n    open val code:
String\n    open val location: Int\n    open val ctrlKey: Boolean\n    open val shiftKey: Boolean\n    open val altKey:
Boolean\n    open val metaKey: Boolean\n    open val repeat: Boolean\n    open val isComposing: Boolean\n    open
val charCode: Int\n    open val keyCode: Int\n    open val which: Int\n    fun getModifierState(keyArg: String):
Boolean\n\n    companion object {\n        val DOM_KEY_LOCATION_STANDARD: Int\n        val
DOM_KEY_LOCATION_LEFT: Int\n        val DOM_KEY_LOCATION_RIGHT: Int\n        val
DOM_KEY_LOCATION_NUMPAD: Int\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n
val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface
KeyboardEventInit : EventModifierInit {\n    var key: String? /* = \"\" */\n    get() = definedExternally\n
set(value) = definedExternally\n    var code: String? /* = \"\" */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var location: Int?
/* = 0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var repeat: Boolean? /* = false
*/\n    get() = definedExternally\n    set(value) = definedExternally\n    var isComposing: Boolean? /* = false
*/\n    get() = definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun KeyboardEventInit(key: String? = \"\", code: String? = \"\", location: Int? = 0, repeat: Boolean? = false,
isComposing: Boolean? = false, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false,
metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn:
Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock:
Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol:
Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int?
= 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): KeyboardEventInit {\n
val o = js(\"({})\")\n    o[\"key\"] = key\n    o[\"code\"] = code\n    o[\"location\"] = location\n    o[\"repeat\"] =
repeat\n    o[\"isComposing\"] = isComposing\n    o[\"ctrlKey\"] = ctrlKey\n    o[\"shiftKey\"] = shiftKey\n
o[\"altKey\"] = altKey\n    o[\"metaKey\"] = metaKey\n    o[\"modifierAltGraph\"] = modifierAltGraph\n
o[\"modifierCapsLock\"] = modifierCapsLock\n    o[\"modifierFn\"] = modifierFn\n    o[\"modifierFnLock\"] =
modifierFnLock\n    o[\"modifierHyper\"] = modifierHyper\n    o[\"modifierNumLock\"] = modifierNumLock\n
o[\"modifierScrollLock\"] = modifierScrollLock\n    o[\"modifierSuper\"] = modifierSuper\n
o[\"modifierSymbol\"] = modifierSymbol\n    o[\"modifierSymbolLock\"] = modifierSymbolLock\n    o[\"view\"] =
view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] =

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composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin\n *\npublic
external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) :
UIEvent {\n    open val data: String\n\n    companion object {\n        val NONE: Short\n        val
CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface CompositionEventInit : UIEventInit {\n    var data: String? /* = \"\" */\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
CompositionEventInit(data: String? = \"\", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): CompositionEventInit {\n    val o = js(\"({})\")\n
o[\"data\"] = data\n    o[\"view\"] = view\n    o[\"detail\"] = detail\n
    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return
o\n}\n\n/**\n * Exposes the JavaScript [Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin\n
*\npublic external open class Event(type: String, eventInitDict: EventInit = definedExternally) {\n    open val type:
String\n    open val target: EventTarget?\n    open val currentTarget: EventTarget?\n    open val eventPhase: Short\n
open val bubbles: Boolean\n    open val cancelable: Boolean\n    open val defaultPrevented: Boolean\n    open val
composed: Boolean\n    open val isTrusted: Boolean\n    open val timeStamp: Number\n    fun composedPath():
Array<EventTarget>\n    fun stopPropagation()\n    fun stopImmediatePropagation()\n    fun preventDefault()\n
fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)\n\n    companion object {\n        val NONE:
Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin\n *\npublic external abstract
class EventTarget {\n    fun addEventListener(type: String, callback: EventListener?, options: dynamic =
definedExternally)\n    fun addEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic =
definedExternally)\n    fun removeEventListener(type: String, callback: EventListener?, options: dynamic =
definedExternally)\n    fun removeEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic =
definedExternally)\n    fun dispatchEvent(event: Event): Boolean\n}\n\n/**\n * Exposes the JavaScript
[EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin\n *\npublic external
interface EventListener {\n    fun handleEvent(event: Event)\n}\n\n\"/*\n * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE
IS AUTO-GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage
org.w3c.dom\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external abstract class
HTMLAllCollection {\n    open val length: Int\n    fun item(nameOrIndex: String = definedExternally):
UnionElementOrHTMLCollection?\n    fun namedItem(name: String):
UnionElementOrHTMLCollection?\n}\n\n@kotlin.internal.InlineOnly\npublic
inline operator fun HTMLAllCollection.get(index: Int): Element? =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLAllCollection.get(name:
String): UnionElementOrHTMLCollection? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection)
to Kotlin\n *\npublic external abstract class HTMLFormControlsCollection : HTMLCollection\n\n/**\n * Exposes
the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\n
*\npublic external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {\n    open var value:
String\n}\n\n/**\n * Exposes the JavaScript

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[HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin\n
*\npublic external abstract class HTMLOptionsCollection : HTMLCollection {\n  override var length: Int\n  open
var selectedIndex:
  Int\n  fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic =
definedExternally)\n  fun remove(index: Int)\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n *
Exposes the JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to
Kotlin\n
*\npublic external abstract class HTMLElement : Element, GlobalEventHandlers,
DocumentAndElementEventHandlers, ElementContentEditable, ElementCSSInlineStyle {\n  open var title:
String\n  open var lang: String\n  open var translate: Boolean\n  open var dir: String\n  open val dataset:
DOMStringMap\n  open var hidden: Boolean\n  open var tabIndex: Int\n  open var accessKey: String\n  open
val accessKeyLabel: String\n  open var draggable: Boolean\n  open val dropzone: DOMTokenList\n  open var
contextMenu: HTMLMenuElement?\n  open var spellcheck:
  Boolean\n  open var innerText: String\n  open val offsetParent: Element?\n  open val offsetTop: Int\n  open val
offsetLeft: Int\n  open val offsetWidth: Int\n  open val offsetHeight: Int\n  fun click()\n  fun focus()\n  fun
blur()\n  fun forceSpellCheck()\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the
JavaScript [HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to
Kotlin\n
*\npublic external abstract class HTMLUnknownElement : HTMLElement {\n  companion object {\n
    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin\n
*\npublic external
abstract class DOMStringMap\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
DOMStringMap.get(name: String): String? = asDynamic()[name]\n\n@kotlin.internal.InlineOnly\npublic inline
operator fun DOMStringMap.set(name: String, value: String) { asDynamic()[name] = value }\n\n/**\n * Exposes
the JavaScript [HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to
Kotlin\n
*\npublic external abstract class HTMLHtmlElement : HTMLElement {\n  open var version: String\n\n  companion
object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE:
Short\n  }\n}\n\n/**\n * Exposes the JavaScript

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Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin\n *\npublic
external abstract class HTMLHeadElement : HTMLElement {\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n
        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin\n *\npublic
external abstract class HTMLTitleElement : HTMLElement {\n    open var text: String\n\n    companion object {\n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n
        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin\n *\npublic
external abstract class HTMLBaseElement : HTMLElement {\n    open var href: String\n    open var target:
String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n
        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val
DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to
Kotlin\n *\npublic external abstract class HTMLLinkElement : HTMLElement, LinkStyle {\n    open var href:
String\n    open var crossOrigin: String?\n    open var rel: String\n    open var `as`: RequestDestination\n    open val
relList: DOMTokenList\n    open var media: String\n    open var nonce: String\n    open var hreflang: String\n
    open var type: String\n    open val
sizes: DOMTokenList\n    open var referrerPolicy: String\n    open var charset: String\n    open var rev: String\n
    open var target: String\n    open var scope: String\n    open var workerType: WorkerType\n\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val

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ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n
* Exposes the JavaScript
[HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin\n */\npublic
external abstract class HTMLMetaElement : HTMLElement {\n    open var name: String\n    open var httpEquiv:
String\n    open var content: String\n    open var scheme: String\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n
* Exposes
the JavaScript [HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to
Kotlin\n */\npublic external abstract class HTMLStyleElement : HTMLElement, LinkStyle {\n    open var media:
String\n    open var nonce: String\n    open var type: String\n\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n
* Exposes
the JavaScript [HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to
Kotlin\n */\npublic external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers {\n    open
var text: String\n    open var link: String\n    open var vLink: String\n    open var aLink: String\n    open var bgColor:
String\n    open var background: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n
* Exposes
the JavaScript [HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to
Kotlin\n */\npublic external abstract class HTMLHeadingElement : HTMLElement {\n    open var align: String\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val

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TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n
        val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript
[HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin\n
*/\npublic external abstract class HTMLParagraphElement : HTMLElement {\n    open var align: String\n\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE:
Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin\n
*/\npublic external abstract class HTMLHRElement : HTMLElement {\n    open var align: String\n    open var
color: String\n    open var noShade: Boolean\n    open var size: String\n    open var width: String\n\n
companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n
        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE:
Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin\n
*/\npublic external abstract class HTMLPreElement : HTMLElement {\n    open var width: Int\n\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n
        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE:
Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin\n
*/\npublic external abstract class HTMLQuoteElement : HTMLElement {\n    open var cite: String\n\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n
    }

```



DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin\n \*/\npublic external abstract class HTMLDivElement : HTMLElement {\n open var align: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val

TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin\n \*/\npublic external abstract class HTMLAnchorElement : HTMLElement, HTMLHyperlinkElementUtils {\n open var target: String\n open var download: String\n open var ping: String\n open var rel: String\n open val relList: DOMTokenList\n open var hreflang: String\n open var type: String\n open var text: String\n open var referrerPolicy: String\n open var coords: String\n open var charset: String\n open var name: String\n open var rev: String\n open var shape: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to Kotlin\n \*/\npublic external abstract class HTMLDataElement : HTMLElement {\n open var value: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin\n \*/\npublic external abstract class HTMLTimeElement : HTMLElement {\n open var dateTime: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE:

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Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin\n
*\npublic external abstract class HTMLSpanElement : HTMLElement {\n    companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin\n
*\npublic external abstract class HTMLBRElement : HTMLElement {\n    open var clear: String\n\n    companion
object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE:
Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript
[HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to
Kotlin\n
*\npublic external interface HTMLHyperlinkElementUtils {\n    var href: String\n    val origin: String\n
var protocol: String\n    var username: String\n    var password: String\n    var host: String\n    var hostname:
String\n    var port: String\n    var pathname: String\n    var search: String\n    var hash: String\n}\n\n/**\n * Exposes
the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to
Kotlin\n
*\npublic external abstract class HTMLModElement : HTMLElement {\n    open var cite: String\n    open
var dateTime: String\n\n    companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin\n
*\npublic external abstract class HTMLPictureElement : HTMLElement {\n    companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val

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CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }|}||n/n/**|n * Exposes the JavaScript
[HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin|n
*/|npublic external abstract class HTMLSourceElement : HTML|nElement {|n    open var src: String|n    open var
type: String|n    open var srcset: String|n    open var sizes: String|n    open var media: String|n|n    companion object
{|n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }|}||n/n/**|n * Exposes the JavaScript
[HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin|n
*/|npublic external abstract class HTMLImageElement : HTML|nElement, HTML|nOrSVGImageElement,
TexImageSource {|n    open var alt: String|n    open var src: String|n
    open var srcset: String|n    open var sizes: String|n    open var crossOrigin: String?|n    open var useMap: String|n
    open var isMap: Boolean|n    open var width: Int|n    open var height: Int|n    open val naturalWidth: Int|n    open
val naturalHeight: Int|n    open val complete: Boolean|n    open val currentSrc: String|n    open var referrerPolicy:
String|n    open var name: String|n    open var lowsrc: String|n    open var align: String|n    open var hspace: Int|n
    open var vspace: Int|n    open var longDesc: String|n    open var border: String|n    open val x: Int|n    open val y:
Int|n|n    companion object {|n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }|}||n/n/**|n * Exposes the JavaScript
[HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin|n
*/|npublic external abstract class HTMLIFrameElement : HTML|nElement {|n    open var src: String|n    open var
srcdoc: String|n    open var name: String|n    open val sandbox: DOM|nTokenList|n    open var allowFullscreen:
Boolean|n    open var allowUserMedia: Boolean|n    open var width: String|n    open var height: String|n    open var
referrerPolicy: String|n    open val contentDocument: Document?|n    open val contentWindow: Window?|n    open
var align: String|n    open
var scrolling: String|n    open var frameBorder: String|n    open var longDesc: String|n    open var marginHeight:
String|n    open var marginWidth: String|n    fun getSVGDocument(): Document?|n|n    companion object {|n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:

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Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to
Kotlin\n */\npublic external abstract class HTMLEmbedElement : HTMLElement {\n    open var src: String\n
open var type: String\n    open var width: String\n    open var height: String\n    open var align: String\n
open var name: String\n    fun getSVGDocument(): Document?\n\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to
Kotlin\n */\npublic external abstract class HTMLObjectElement : HTMLElement {\n    open var data: String\n
open var type: String\n    open var typeMustMatch: Boolean\n    open var name: String\n    open var useMap:
String\n    open val form: HTMLFormElement?\n    open var width: String\n    open var height: String\n
open val contentDocument: Document?\n    open val contentWindow: Window?\n    open val willValidate: Boolean\n
open val validity: ValidityState\n    open val validationMessage: String\n    open var align: String\n
open var archive: String\n    open var code: String\n    open var declare: Boolean\n    open var hspace: Int\n
open var standby: String\n    open var vspace: Int\n    open
var codeBase: String\n    open var codeType: String\n    open var border: String\n    fun getSVGDocument():
Document?\n    fun checkValidity(): Boolean\n    fun reportValidity(): Boolean\n    fun setCustomValidity(error:
String)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin\n
*/\npublic external abstract class HTMLParamElement : HTMLElement {\n    open var name: String\n    open var
value: String\n    open var type: String\n    open var valueType: String\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val
DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin\n */\npublic
external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource, TexImageSource {\n
    open var width: Int\n    open var height: Int\n    open val videoWidth: Int\n    open val videoHeight: Int\n    open var
poster: String\n    open var playsInline: Boolean\n\n    companion object {\n        val NETWORK_EMPTY: Short\n
        val NETWORK_IDLE: Short\n        val NETWORK_LOADING: Short\n        val NETWORK_NO_SOURCE:
Short\n        val HAVE_NOTHING: Short\n        val HAVE_METADATA: Short\n        val
HAVE_CURRENT_DATA: Short\n        val HAVE_FUTURE_DATA: Short\n        val HAVE_ENOUGH_DATA:
Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin\n
*/\npublic external abstract class HTMLAudioElement : HTMLMediaElement {\n    companion object {\n        val
NETWORK_EMPTY: Short\n        val NETWORK_IDLE: Short\n        val NETWORK_LOADING: Short\n
        val NETWORK_NO_SOURCE: Short\n
        val HAVE_NOTHING: Short\n        val HAVE_METADATA: Short\n        val HAVE_CURRENT_DATA:
Short\n        val HAVE_FUTURE_DATA: Short\n        val HAVE_ENOUGH_DATA: Short\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement)
to Kotlin\n */\npublic external abstract class HTMLTrackElement : HTMLMediaElement {\n    open var kind: String\n
    open var src: String\n    open var srclang: String\n    open var label: String\n    open var default: Boolean\n    open
val readyState: Short\n    open val track: TextTrack\n\n    companion object {\n        val NONE: Short\n        val
LOADING: Short\n        val LOADED: Short\n        val ERROR: Short\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING:

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Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val
DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to
Kotlin\n */\npublic external abstract class HTMLMediaElement : HTMLElement {\n    open val error:
MediaError?\n    open var src: String\n    open var srcObject: MediaProvider?\n    open val currentSrc: String\n
open var crossOrigin: String?\n    open val networkState: Short\n    open var preload: String\n    open val buffered:
TimeRanges\n    open val readyState: Short\n    open val seeking: Boolean\n    open var currentTime: Double\n
open val duration: Double\n    open val paused: Boolean\n    open var defaultPlaybackRate: Double\n    open var
playbackRate: Double\n    open val played: TimeRanges\n    open val seekable: TimeRanges\n
open val ended: Boolean\n    open var autoplay: Boolean\n    open var loop: Boolean\n    open var controls:
Boolean\n    open var volume: Double\n    open var muted: Boolean\n    open var defaultMuted: Boolean\n    open
val audioTracks: AudioTrackList\n    open val videoTracks: VideoTrackList\n    open val textTracks:
TextTrackList\n    open val mediaKeys: MediaKeys?\n    open var onencrypted: ((Event) -> dynamic)?\n    open var
onwaitingforkey: ((Event) -> dynamic)?\n    fun load()\n    fun canPlayType(type: String): CanPlayTypeResult\n
fun fastSeek(time: Double)\n    fun getStartDate(): dynamic\n    fun play(): Promise<Unit>\n    fun pause()\n    fun
addTextTrack(kind: TextTrackKind, label: String = definedExternally, language: String = definedExternally):
TextTrack\n    fun setMediaKeys(mediaKeys: MediaKeys?): Promise<Unit>\n\n    companion object {\n        val
NETWORK_EMPTY: Short\n        val NETWORK_IDLE: Short\n        val NETWORK_LOADING: Short\n
val NETWORK_NO_SOURCE:
Short\n        val HAVE_NOTHING: Short\n        val HAVE_METADATA: Short\n        val
HAVE_CURRENT_DATA: Short\n        val HAVE_FUTURE_DATA: Short\n        val HAVE_ENOUGH_DATA:
Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError)
to Kotlin\n */\npublic external abstract class MediaError {\n    open val code: Short\n\n    companion object {\n
val MEDIA_ERR_ABORTED: Short\n        val MEDIA_ERR_NETWORK: Short\n        val
MEDIA_ERR_DECODE: Short\n        val MEDIA_ERR_SRC_NOT_SUPPORTED: Short\n    }\n}\n\n/**\n *
Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to
Kotlin\n */\npublic external abstract class AudioTrackList : EventTarget {\n    open val length: Int\n    open var
onchange: ((Event) -> dynamic)?\n    open var onaddtrack: ((TrackEvent) -> dynamic)?\n    open var
onremovetrack: ((TrackEvent) -> dynamic)?\n    fun getTrackById(id: String):
AudioTrack?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun AudioTrackList.get(index: Int):
AudioTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin\n */\npublic
external abstract class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n    open val id: String\n
open val kind: String\n    open val label: String\n    open val language: String\n    open var enabled: Boolean\n
open val sourceBuffer: SourceBuffer?\n}\n\n/**\n * Exposes the JavaScript
[VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin\n */\npublic external
abstract class VideoTrackList : EventTarget {\n    open val length: Int\n    open val selectedIndex: Int\n    open var
onchange: ((Event) -> dynamic)?\n    open var onaddtrack: ((TrackEvent) -> dynamic)?\n    open var

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onremovetrack: ((TrackEvent) -> dynamic)?\n fun getTrackById(id: String):
VideoTrack?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun VideoTrackList.get(index: Int):
VideoTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin\n *\npublic external abstract
class
VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n open val id: String\n open val kind: String\n
open val label: String\n open val language: String\n open var selected: Boolean\n open val sourceBuffer:
SourceBuffer?\n}\n\npublic external abstract class TextTrackList : EventTarget {\n open val length: Int\n open
var onchange: ((Event) -> dynamic)?\n open var onaddtrack: ((TrackEvent) -> dynamic)?\n open var
onremovetrack: ((TrackEvent) -> dynamic)?\n fun getTrackById(id: String):
TextTrack?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackList.get(index: Int): TextTrack?
= asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin\n *\npublic external abstract
class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {\n open val kind: TextTrackKind\n
open val label: String\n open val language: String\n open val id: String\n
open val inBandMetadataTrackDispatchType: String\n open var mode: TextTrackMode\n open val cues:
TextTrackCueList?\n open val activeCues: TextTrackCueList?\n open var oncuechange: ((Event) ->
dynamic)?\n open val sourceBuffer: SourceBuffer?\n fun addCue(cue: TextTrackCue)\n fun removeCue(cue:
TextTrackCue)\n}\n\npublic external abstract class TextTrackCueList {\n open val length: Int\n fun
getCueById(id: String): TextTrackCue?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
TextTrackCueList.get(index: Int): TextTrackCue? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin\n *\npublic external
abstract class TextTrackCue : EventTarget {\n open val track: TextTrack?\n open var id: String\n open var
startTime: Double\n open var endTime: Double\n open var pauseOnExit: Boolean\n open var onenter: ((Event)
-> dynamic)?\n open var onexit: ((Event)
-> dynamic)?\n}\n\n/**\n * Exposes the JavaScript
[TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\n *\npublic external abstract
class TimeRanges {\n open val length: Int\n fun start(index: Int): Double\n fun end(index: Int):
Double\n}\n\n/**\n * Exposes the JavaScript
[TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\n *\npublic external open class
TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {\n open val track:
UnionAudioTrackOrTextTrackOrVideoTrack?\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface TrackEventInit : EventInit {\n var track:
UnionAudioTrackOrTextTrackOrVideoTrack? /* = null *\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun TrackEventInit(track:
UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): TrackEventInit {\n val o = js("{}")\n o["track"] = track\n o["bubbles"] =
bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the
JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\n *\npublic external abstract class HTMLElement : HTMLDivElement {\n open var name: String\n open val
areas: HTMLCollection\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE:

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Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to
Kotlin\n */\npublic external abstract class HTMLAreaElement : HTMLInputElement, HTMLHyperlinkElementUtils {\n
open var alt: String\n    open var coords: String\n    open var shape: String\n    open var target: String\n    open var
download: String\n    open var ping: String\n    open var rel: String\n    open val relList: DOMTokenList\n    open
var referrerPolicy: String\n    open var noHref: Boolean\n\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin\n */\npublic
external abstract class HTMLTableElement : HTMLInputElement {\n    open var caption:
HTMLTableCaptionElement?\n    open var tHead: HTMLTableSectionElement?\n    open var tFoot:
HTMLTableSectionElement?\n
    open val tBodies: HTMLCollection\n    open val rows: HTMLCollection\n    open var align: String\n    open var
border: String\n    open var frame: String\n    open var rules: String\n    open var summary: String\n    open var
width: String\n    open var bgColor: String\n    open var cellPadding: String\n    open var cellSpacing: String\n    fun
createCaption(): HTMLTableCaptionElement\n    fun deleteCaption()\n    fun createTHead():
HTMLTableSectionElement\n    fun deleteTHead()\n    fun createTFoot(): HTMLTableSectionElement\n    fun
deleteTFoot()\n    fun createTBody(): HTMLTableSectionElement\n    fun insertRow(index: Int =
definedExternally): HTMLTableRowElement\n    fun deleteRow(index: Int)\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE:
Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val
DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to
Kotlin\n */\npublic external abstract class HTMLTableCaptionElement : HTMLInputElement {\n    open var align:
String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n

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    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin\n
*\npublic external abstract class HTMLTableColElement : HTMLElement {\n    open var span: Int\n    open var
align: String\n    open var ch: String\n    open var chOff: String\n    open var vAlign: String\n    open var width:
String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to
Kotlin\n
*\npublic external abstract class HTMLTableSectionElement : HTMLElement {\n    open val rows:
HTMLCollection\n    open var align: String\n    open var ch: String\n
    open var chOff: String\n    open var vAlign: String\n    fun insertRow(index: Int = definedExternally):
HTMLElement\n    fun deleteRow(index: Int)\n\n    companion object {\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement)
to Kotlin\n
*\npublic external abstract class HTMLTableRowElement : HTMLElement {\n    open val rowIndex:
Int\n    open val sectionRowIndex: Int\n    open val cells: HTMLCollection\n    open var align: String\n    open var
ch: String\n    open var chOff: String\n    open var vAlign: String\n    open var bgColor: String\n    fun
insertCell(index: Int = definedExternally): HTMLElement\n    fun deleteCell(index: Int)\n\n    companion object {\n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n
        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING:
Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin\n
*\npublic external abstract class HTMLTableCellElement : HTMLElement {\n    open var colSpan: Int\n    open var
rowSpan: Int\n    open var headers: String\n    open val cellIndex: Int\n    open var scope: String\n    open var abbr:

```



```

var formAction: String\n open var formEnctype: String\n open var formMethod: String\n open var
formNoValidate: Boolean\n open var formTarget: String\n open var height: Int\n open var indeterminate:
Boolean\n open var inputMode: String\n open val list: HTMLElement?\n open var max: String\n open var
maxLength: Int\n open var min: String\n open var minLength: Int\n open var multiple: Boolean\n open var
name: String\n open var pattern: String\n open var placeholder: String\n open var readOnly: Boolean\n open
var required: Boolean\n open var size: Int\n open var src: String\n open var step: String\n open var type:
String\n open var defaultValue: String\n open var value: String\n open var valueAsDate: dynamic\n open var
valueAsNumber: Double\n open var width: Int\n open val willValidate: Boolean\n open val validity:
ValidityState\n open val validationMessage: String\n open val labels: NodeList\n
open var selectionStart: Int?\n open var selectionEnd: Int?\n open var selectionDirection: String?\n open var
align: String\n open var useMap: String\n fun stepUp(n: Int = definedExternally)\n fun stepDown(n: Int =
definedExternally)\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun
setCustomValidity(error: String)\n fun select()\n fun setRangeText(replacement: String)\n fun
setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally)\n fun
setSelectionRange(start: Int, end: Int, direction: String = definedExternally)\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE:
Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to Kotlin\n
*\n\npublic external abstract class HTMLButtonElement : HTMLElement {\n open var autofocus: Boolean\n
open var disabled: Boolean\n open val form: HTMLFormElement?\n open var formAction: String\n open var
formEnctype: String\n open var formMethod: String\n open var formNoValidate: Boolean\n open var
formTarget: String\n open var name: String\n open var type: String\n open var value: String\n open var
menu: HTMLMenuElement?\n
open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n
open val labels: NodeList\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun
setCustomValidity(error: String)\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to Kotlin\n
*\n\npublic external abstract class HTMLSelectElement : HTMLElement, ItemArrayLike<Element> {\n open var
autocomplete: String\n open var autofocus: Boolean\n open var disabled: Boolean\n open val form:
HTMLFormElement?\n open var multiple: Boolean\n open var name: String\n open var required: Boolean\n
open var size: Int\n open val type: String\n open val options: HTMLOptionsCollection\n override var length:

```

```

Int\n    open val selectedOptions: HTMLCollection\n    open var selectedIndex: Int\n    open var value: String\n    open val willValidate: Boolean\n    open val validity: ValidityState\n    open val validationMessage: String\n    open val labels: NodeList\n    fun namedItem(name: String): HTMLOptionElement?\n    fun add(element:
UnionHTMLOptGroupElementOrHTMLOptionElement, before:
dynamic = definedExternally)\n    fun remove(index: Int)\n    fun checkValidity(): Boolean\n    fun reportValidity():
Boolean\n    fun setCustomValidity(error: String)\n    override fun item(index: Int): Element?\n\n    companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
    }\n\n    @kotlin.internal.InlineOnly\n    public
inline operator fun HTMLSelectElement.get(index: Int): Element? =
asDynamic()[index]\n\n    @kotlin.internal.InlineOnly\n    public inline operator fun HTMLSelectElement.set(index: Int,
option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n    /**\n     * Exposes the JavaScript
[HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin\n
    */\n    public external abstract class HTMLDataListElement : HTMLElement {\n        open val options:
HTMLCollection\n\n        companion object {\n            val ELEMENT_NODE: Short\n            val ATTRIBUTE_NODE:
Short\n            val TEXT_NODE: Short\n            val CDATA_SECTION_NODE: Short\n            val
ENTITY_REFERENCE_NODE: Short\n            val ENTITY_NODE: Short\n            val
PROCESSING_INSTRUCTION_NODE: Short\n            val COMMENT_NODE: Short\n            val
DOCUMENT_NODE: Short\n            val DOCUMENT_TYPE_NODE: Short\n            val
DOCUMENT_FRAGMENT_NODE: Short\n            val NOTATION_NODE: Short\n            val
DOCUMENT_POSITION_DISCONNECTED: Short\n            val DOCUMENT_POSITION_PRECEDING: Short\n
            val DOCUMENT_POSITION_FOLLOWING: Short\n            val DOCUMENT_POSITION_CONTAINS: Short\n
            val DOCUMENT_POSITION_CONTAINED_BY: Short\n            val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }\n\n        /**\n         * Exposes the JavaScript
[HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin\n
        */\n        public external abstract class HTMLOptGroupElement : HTMLElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n            open var disabled: Boolean\n            open var label:
String\n\n            companion object {\n                val ELEMENT_NODE: Short\n                val ATTRIBUTE_NODE: Short\n
                val TEXT_NODE: Short\n                val CDATA_SECTION_NODE: Short\n                val
ENTITY_REFERENCE_NODE: Short\n                val ENTITY_NODE: Short\n                val
PROCESSING_INSTRUCTION_NODE: Short\n                val COMMENT_NODE: Short\n                val
DOCUMENT_NODE: Short\n                val DOCUMENT_TYPE_NODE: Short\n                val
DOCUMENT_FRAGMENT_NODE: Short\n                val NOTATION_NODE: Short\n                val
DOCUMENT_POSITION_DISCONNECTED: Short\n                val DOCUMENT_POSITION_PRECEDING: Short\n
                val DOCUMENT_POSITION_FOLLOWING: Short\n                val DOCUMENT_POSITION_CONTAINS: Short\n
                val DOCUMENT_POSITION_CONTAINED_BY: Short\n                val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n            }\n\n            /**\n             * Exposes the JavaScript
[HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin\n
            */\n            public external abstract class HTMLOptionElement : HTMLElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n                open var disabled: Boolean\n                open var form:
HTMLFormElement?\n                open var label: String\n                open var defaultSelected: Boolean\n                open var selected:
Boolean\n                open var value: String\n                open var text: String\n                open val index: Int\n\n                companion object {\n

```

```

val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin \n
* \n public external abstract class HTMLTextAreaElement : HTMLInputElement { \n    open var autocomplete: String \n
open var autofocus: Boolean \n    open var cols: Int \n    open var dirName:
String \n    open var disabled: Boolean \n    open val form: HTMLFormElement? \n    open var inputMode: String \n
open var maxLength: Int \n    open var minLength: Int \n    open var name: String \n    open var placeholder: String \n
open var readOnly: Boolean \n    open var required: Boolean \n    open var rows: Int \n    open var wrap: String \n
open val type: String \n    open var defaultValue: String \n    open var value: String \n    open val textLength: Int \n
open val willValidate: Boolean \n    open val validity: ValidityState \n    open val validationMessage: String \n    open
val labels: NodeList \n    open var selectionStart: Int? \n    open var selectionEnd: Int? \n    open var
selectionDirection: String? \n    fun checkValidity(): Boolean \n    fun reportValidity(): Boolean \n    fun
setCustomValidity(error: String) \n    fun select() \n    fun setRangeText(replacement: String) \n    fun
setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally) \n
    fun setSelectionRange(start: Int, end: Int, direction: String = definedExternally) \n \n    companion object { \n
val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to
Kotlin \n * \n public external abstract class HTMLKeygenElement : HTMLInputElement { \n    open var autofocus:
Boolean \n    open var challenge: String \n    open var disabled: Boolean \n    open val form: HTMLFormElement? \n
open var keytype: String \n    open var name: String \n    open val type: String \n    open val willValidate: Boolean \n
open val validity: ValidityState \n    open val validationMessage: String \n    open val labels: NodeList \n    fun
checkValidity(): Boolean \n    fun reportValidity(): Boolean \n    fun setCustomValidity(error: String) \n \n
companion object { \n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val
NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes
the JavaScript [HTMLOutputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOutputElement) to
Kotlin \n * \n public external abstract class HTMLOutputElement : HTMLInputElement { \n    open val htmlFor:

```

```

DOMTokenList\n open val form: HTMLFormElement?\n open val name: String\n open val type: String\n
open val defaultValue: String\n open val value: String\n open val willValidate: Boolean\n open val validity:
ValidityState\n open val validationMessage: String\n open val labels: NodeList\n fun checkValidity():
Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n companion
object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE:
Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin\n
*\n\npublic external abstract class HTMLProgressElement : HTMLElement {\n open val value: Double\n
open val max: Double\n open val position: Double\n open val labels: NodeList\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin\n
*\n\npublic external abstract class HTMLMeterElement : HTMLElement {\n open val value: Double\n open val
min: Double\n open val max: Double\n open val low: Double\n open val high: Double\n open val optimum:
Double\n open val labels: NodeList\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to Kotlin\n
*\n\npublic external abstract class HTMLFieldSetElement : HTMLElement {\n open val disabled: Boolean\n
open val form: HTMLFormElement?\n open val name: String\n open val type: String\n open val elements:
HTMLCollection\n open val willValidate: Boolean\n open val validity: ValidityState\n open val
validationMessage: String\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun
setCustomValidity(error: String)\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val

```

DOCUMENT\_NODE: Short\n

val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val

NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val

DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n

val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY:

Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n/n/\*\*\n \* Exposes

the JavaScript [HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to

Kotlin\n \*/\npublic external abstract class HTMLLegendElement : HTMLElement {\n open val form:

HTMLFormElement?\n open var align: String\n companion object {\n val ELEMENT\_NODE: Short\n

val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n

val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val

PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE:

Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val

DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n

val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n

val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n/n/\*\*\n \* Exposes the JavaScript

[ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\n \*/\npublic external

abstract class ValidityState {\n open val valueMissing: Boolean\n open val typeMismatch: Boolean\n open val

patternMismatch: Boolean\n open val tooLong: Boolean\n open val tooShort: Boolean\n open val

rangeUnderflow: Boolean\n open val rangeOverflow: Boolean\n open val stepMismatch: Boolean\n open val

badInput: Boolean\n open val customError: Boolean\n

open val valid: Boolean\n } \n} \n/n/\*\*\n \* Exposes the JavaScript

[HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to Kotlin\n

\*/\npublic external abstract class HTMLDetailsElement : HTMLElement {\n open var open: Boolean\n

companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val

TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE:

Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val

COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n

val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n

val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n

val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC:

Short\n } \n} \n/n\npublic external abstract class HTMLMenuItemElement : HTMLElement {\n open var type: String\n

open var label: String\n open var compact: Boolean\n companion object {\n val ELEMENT\_NODE:

Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE:

Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val

PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val

DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val

DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n

val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n

val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n/n\npublic

external abstract class HTMLMenuItemElement : HTMLElement {\n open var type: String\n open var label:

String\n open var icon: String\n open var disabled: Boolean\n open var checked: Boolean\n open var



the JavaScript [HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin

```


public external abstract class HTMLTemplateElement : HTMLElement {
    open val content: DocumentFragment
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}


```

\* Exposes the JavaScript [HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin

```


public external abstract class HTMLSlotElement : HTMLElement {
    open var name: String
    fun assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node>
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}


```

public external interface AssignedNodesOptions {
 var flatten: Boolean? = false
 fun get() = definedExternally
 fun set(value) = definedExternally
}
@kotlin.internal.InlineOnly
public inline fun AssignedNodesOptions(flatten: Boolean? = false): AssignedNodesOptions {
 val o = js("{}")
 o["flatten"] = flatten
 return o
}

Exposes the JavaScript [HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to Kotlin

```


public external abstract class HTMLCanvasElement : HTMLElement, CanvasImageSource, TexImageSource {
    open var width: Int
    open var height: Int
    fun getContext(contextId: String, vararg arguments: Any?): RenderingContext?
    fun toDataURL(type: String = definedExternally, quality: Any? = definedExternally): String
    fun toBlob(_callback: (Blob?) -> Unit, type: String = definedExternally, quality: Any? = definedExternally)
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}


```

public external interface CanvasRenderingContext2DSettings {
 var alpha: Boolean? = true
 fun get() = definedExternally
 fun set(value) = definedExternally
}
@kotlin.internal.InlineOnly
public inline fun CanvasRenderingContext2DSettings(alpha: Boolean? = true): CanvasRenderingContext2DSettings {
 val o = js("{}")
 o["alpha"] = alpha
 return o
}

\* Exposes the JavaScript

```

[CanvasRenderingContext2D](https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D) to
Kotlin\n *\npublic external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform,
CanvasCompositing,
CanvasImageSmoothing, CanvasFillStrokeStyles, CanvasShadowStyles, CanvasFilters, CanvasRect,
CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage, CanvasHitRegion, CanvasImageData,
CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath, RenderingContext {\n  open val canvas:
HTMLCanvasElement\n}\n\npublic external interface CanvasState {\n  fun save()\n  fun restore()\n}\n\npublic
external interface CanvasTransform {\n  fun scale(x: Double, y: Double)\n  fun rotate(angle: Double)\n  fun
translate(x: Double, y: Double)\n  fun transform(a: Double, b: Double, c: Double, d: Double, e: Double, f:
Double)\n  fun getTransform(): DOMMatrix\n  fun setTransform(a: Double, b: Double, c: Double, d: Double, e:
Double, f: Double)\n  fun setTransform(transform: dynamic = definedExternally)\n  fun
resetTransform()\n}\n\npublic external interface CanvasCompositing {\n  var globalAlpha: Double\n  var
globalCompositeOperation: String\n}\n\npublic external interface
CanvasImageSmoothing {\n  var imageSmoothingEnabled: Boolean\n  var imageSmoothingQuality:
ImageSmoothingQuality\n}\n\npublic external interface CanvasFillStrokeStyles {\n  var strokeStyle: dynamic\n
get() = definedExternally\n  set(value) = definedExternally\n  var fillStyle: dynamic\n  get() =
definedExternally\n  set(value) = definedExternally\n  fun createLinearGradient(x0: Double, y0: Double, x1:
Double, y1: Double): CanvasGradient\n  fun createRadialGradient(x0: Double, y0: Double, r0: Double, x1:
Double, y1: Double, r1: Double): CanvasGradient\n  fun createPattern(image: CanvasImageSource, repetition:
String): CanvasPattern?\n}\n\npublic external interface CanvasShadowStyles {\n  var shadowOffsetX: Double\n
var shadowOffsetY: Double\n  var shadowBlur: Double\n  var shadowColor: String\n}\n\npublic external
interface CanvasFilters {\n  var filter: String\n}\n\npublic external interface CanvasRect {\n  fun clearRect(x:
Double,
y: Double, w: Double, h: Double)\n  fun fillRect(x: Double, y: Double, w: Double, h: Double)\n  fun
strokeRect(x: Double, y: Double, w: Double, h: Double)\n}\n\npublic external interface CanvasDrawPath {\n  fun
beginPath()\n  fun fill(fillRule: CanvasFillRule = definedExternally)\n  fun fill(path: Path2D, fillRule:
CanvasFillRule = definedExternally)\n  fun stroke()\n  fun stroke(path: Path2D)\n  fun clip(fillRule:
CanvasFillRule = definedExternally)\n  fun clip(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n
fun resetClip()\n  fun isPointInPath(x: Double, y: Double, fillRule: CanvasFillRule = definedExternally):
Boolean\n  fun isPointInPath(path: Path2D, x: Double, y: Double, fillRule: CanvasFillRule = definedExternally):
Boolean\n  fun isPointInStroke(x: Double, y: Double): Boolean\n  fun isPointInStroke(path: Path2D, x: Double,
y: Double): Boolean\n}\n\npublic external interface CanvasUserInterface {\n  fun drawFocusIfNeeded(element:
Element)\n
fun drawFocusIfNeeded(path: Path2D, element: Element)\n  fun scrollPathIntoView()\n  fun
scrollPathIntoView(path: Path2D)\n}\n\npublic external interface CanvasText {\n  fun fillText(text: String, x:
Double, y: Double, maxWidth: Double = definedExternally)\n  fun strokeText(text: String, x: Double, y: Double,
maxWidth: Double = definedExternally)\n  fun measureText(text: String): TextMetrics\n}\n\npublic external
interface CanvasDrawImage {\n  fun drawImage(image: CanvasImageSource, dx: Double, dy: Double)\n  fun
drawImage(image: CanvasImageSource, dx: Double, dy: Double, dw: Double, dh: Double)\n  fun
drawImage(image: CanvasImageSource, sx: Double, sy: Double, sw: Double, sh: Double, dx: Double, dy: Double,
dw: Double, dh: Double)\n}\n\npublic external interface CanvasHitRegion {\n  fun addHitRegion(options:
HitRegionOptions = definedExternally)\n  fun removeHitRegion(id: String)\n  fun clearHitRegions()\n}\n\npublic
external interface CanvasImageData
{\n  fun createImageData(sw: Double, sh: Double): ImageData\n  fun createImageData(imagedata: ImageData):
ImageData\n  fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double): ImageData\n  fun
putImageData(imagedata: ImageData, dx: Double, dy: Double)\n  fun putImageData(imagedata: ImageData, dx:
Double, dy: Double, dirtyX: Double, dirtyY: Double, dirtyWidth: Double, dirtyHeight: Double)\n}\n\npublic
external interface CanvasPathDrawingStyles {\n  var lineWidth: Double\n  var lineCap: CanvasLineCap\n  var

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lineJoin: CanvasLineJoin\n    var miterLimit: Double\n    var lineDashOffset: Double\n    fun setLineDash(segments:
Array<Double>)\n    fun getLineDash(): Array<Double>}\n\npublic external interface CanvasTextDrawingStyles
{\n    var font: String\n    var textAlign: CanvasTextAlign\n    var textBaseline: CanvasTextBaseline\n    var
direction: CanvasDirection}\n\npublic external interface CanvasPath {\n    fun closePath()\n    fun moveTo(x:
Double, y: Double)\n
    fun.lineTo(x: Double, y: Double)\n    fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n
fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n    fun
arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n    fun arcTo(x1: Double, y1: Double, x2:
Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n    fun rect(x: Double, y: Double, w:
Double, h: Double)\n    fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double,
anticlockwise: Boolean = definedExternally)\n    fun ellipse(x: Double, y: Double, radiusX: Double, radiusY:
Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\n */\npublic external
abstract class CanvasGradient {\n    fun addColorStop(offset: Double, color:
String)\n}\n\n/**\n * Exposes the JavaScript
[CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin\n */\npublic external
abstract class CanvasPattern {\n    fun setTransform(transform: dynamic = definedExternally)\n}\n\n/**\n * Exposes
the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin\n */\npublic
external abstract class TextMetrics {\n    open val width: Double\n    open val actualBoundingBoxLeft: Double\n
open val actualBoundingBoxRight: Double\n    open val fontBoundingBoxAscent: Double\n    open val
fontBoundingBoxDescent: Double\n    open val actualBoundingBoxAscent: Double\n    open val
actualBoundingBoxDescent: Double\n    open val emHeightAscent: Double\n    open val emHeightDescent:
Double\n    open val hangingBaseline: Double\n    open val alphabeticBaseline: Double\n    open val
ideographicBaseline: Double}\n\npublic external interface HitRegionOptions {\n    var path: Path2D? /* = null
*/\n
    get() = definedExternally\n    set(value) = definedExternally\n    var fillRule: CanvasFillRule? /* =
CanvasFillRule.NONZERO */\n    get() = definedExternally\n    set(value) = definedExternally\n    var id:
String? /* = \"\" */\n    get() = definedExternally\n    set(value) = definedExternally\n    var parentID: String? /*
= null */\n    get() = definedExternally\n    set(value) = definedExternally\n    var cursor: String? /* = \"inherit\"
*/\n    get() = definedExternally\n    set(value) = definedExternally\n    var control: Element? /* = null */\n
get() = definedExternally\n    set(value) = definedExternally\n    var label: String? /* = null */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var role: String? /* = null */\n    get() =
definedExternally\n    set(value) = definedExternally}\n\n@kotlin.internal.InlineOnly\npublic inline fun
HitRegionOptions(path: Path2D? = null, fillRule:
CanvasFillRule? = CanvasFillRule.NONZERO, id: String? = \"\", parentID: String? = null, cursor: String? =
\"inherit\", control: Element? = null, label: String? = null, role: String? = null): HitRegionOptions {\n    val o =
js(\"({})\")\n    o[\"path\"] = path\n    o[\"fillRule\"] = fillRule\n    o[\"id\"] = id\n    o[\"parentID\"] = parentID\n
o[\"cursor\"] = cursor\n    o[\"control\"] = control\n    o[\"label\"] = label\n    o[\"role\"] = role\n    return
o}\n\n/**\n * Exposes the JavaScript [ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to
Kotlin\n */\npublic external open class ImageData : ImageBitmapSource, TexImageSource {\n    constructor(sw:
Int, sh: Int)\n    constructor(data: Uint8ClampedArray, sw: Int, sh: Int = definedExternally)\n    open val width: Int\n
open val height: Int\n    open val data: Uint8ClampedArray}\n\n/**\n * Exposes the JavaScript
[Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin\n */\npublic external
open class Path2D() : CanvasPath {\n    constructor(path: Path2D)\n    constructor(paths: Array<Path2D>, fillRule:
CanvasFillRule = definedExternally)\n    constructor(d: String)\n    fun addPath(path: Path2D, transform: dynamic =
definedExternally)\n    override fun closePath()\n    override fun moveTo(x: Double, y: Double)\n    override fun
lineTo(x: Double, y: Double)\n    override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n
}

```

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    override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n
    override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n  override fun arcTo(x1:
    Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n  override fun
    rect(x: Double, y: Double, w: Double, h: Double)\n  override fun arc(x: Double, y: Double, radius: Double,
    startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */) \n  override
    fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double,
    endAngle: Double, anticlockwise: Boolean /* = definedExternally */) \n} \n\n/** \n * Exposes the JavaScript
    [ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext)
    to Kotlin \n * \npublic external abstract class ImageBitmapRenderingContext {\n  open val canvas:
    HTMLCanvasElement\n  fun transferFromImageBitmap(bitmap: ImageBitmap?) \n} \n\npublic external interface
    ImageBitmapRenderingContextSettings {\n  var alpha: Boolean? /* = true */ \n    get() = definedExternally\n
    set(value) = definedExternally \n} \n\n@kotlin.internal.InlineOnly\npublic inline fun
    ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {\n  val o
    = js("{}") \n  o["alpha"] = alpha\n  return o \n} \n\n/** \n * Exposes the JavaScript
    [CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry)
    to Kotlin \n * \npublic external abstract class CustomElementRegistry {\n  fun define(name: String, constructor: ()
    -> dynamic, options: ElementDefinitionOptions = definedExternally) \n  fun get(name: String): Any? \n  fun
    whenDefined(name: String): Promise<Unit> \n} \n\npublic external interface ElementDefinitionOptions {\n  var
    extends: String? \n    get() = definedExternally\n    set(value) =
    definedExternally \n} \n\n@kotlin.internal.InlineOnly\npublic inline fun ElementDefinitionOptions(extends: String?
    = undefined): ElementDefinitionOptions {\n  val o = js("{}") \n  o["extends"] = extends\n  return
    o \n} \n\npublic external interface ElementContentEditable {\n  var contentEditable: String \n  val
    isContentEditable: Boolean \n} \n\n/** \n * Exposes the JavaScript
    [DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin \n * \npublic external
    abstract class DataTransfer {\n  open var dropEffect: String \n  open
    var effectAllowed: String \n  open val items: DataTransferItemList \n  open val types: Array<out String> \n  open
    val files: FileList \n  fun setDragImage(image: Element, x: Int, y: Int) \n  fun getData(format: String): String \n
    fun setData(format: String, data: String) \n  fun clearData(format: String = definedExternally) \n} \n\n/** \n *
    Exposes the JavaScript
    [DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin \n * \npublic
    external abstract class DataTransferItemList {\n  open val length: Int \n  fun add(data: String, type: String):
    DataTransferItem? \n  fun add(data: File): DataTransferItem? \n  fun remove(index: Int) \n  fun
    clear() \n} \n\n@kotlin.internal.InlineOnly\npublic inline operator fun DataTransferItemList.get(index: Int):
    DataTransferItem? = asDynamic()[index] \n\n/** \n * Exposes the JavaScript
    [DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin \n * \npublic
    external abstract
    class DataTransferItem {\n  open val kind: String \n  open val type: String \n  fun getAsString(_callback:
    ((String) -> Unit)?) \n  fun getAsFile(): File? \n} \n\n/** \n * Exposes the JavaScript
    [DragEvent](https://developer.mozilla.org/en/docs/Web/API/DragEvent) to Kotlin \n * \npublic external open class
    DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {\n  open val
    dataTransfer: DataTransfer? \n\n  companion object {\n    val NONE: Short \n    val CAPTURING_PHASE:
    Short \n    val AT_TARGET: Short \n    val BUBBLING_PHASE: Short \n  } \n} \n\npublic external interface
    DragEventInit : MouseEventInit {\n  var dataTransfer: DataTransfer? /* = null */ \n    get() = definedExternally\n
    set(value) = definedExternally \n} \n\n@kotlin.internal.InlineOnly\npublic inline fun DragEventInit(dataTransfer:
    DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0,
    buttons:
    Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey:
    Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,

```



```

Location {\n  open var href: String\n  open val origin: String\n  open var protocol: String\n  open var host:
String\n  open var hostname: String\n  open var port: String\n  open var pathname: String\n  open var search:
String\n  open var hash: String\n  open val ancestorOrigins: Array<out String>\n  fun assign(url: String)\n  fun
replace(url: String)\n  fun reload()\n}\n\n/**\n * Exposes the JavaScript
[PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin\n */\npublic external
open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {\n  open val
state: Any?\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET:
Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface PopStateEventInit : EventInit {\n
var state: Any? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun PopStateEventInit(state: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PopStateEventInit {\n  val o
= js("{}")\n  o["state"] = state\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n
o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin\n */\npublic
external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) :
Event {\n  open val oldURL: String\n  open val newURL:
String\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val
AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface
HashChangeEventInit : EventInit {\n  var oldURL: String? /* = "" */\n  get() = definedExternally\n
set(value) = definedExternally\n  var newURL: String? /* = "" */\n  get() = definedExternally\n  set(value)
= definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun HashChangeEventInit(oldURL: String? =
"", newURL: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
HashChangeEventInit {\n  val o = js("{}")\n  o["oldURL"] = oldURL\n  o["newURL"] = newURL\n
o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return
o\n}\n\n/**\n * Exposes the JavaScript
[PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent)
to Kotlin\n */\npublic external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit
= definedExternally) : Event {\n  open val persisted: Boolean\n\n  companion object {\n    val NONE: Short\n
    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface PageTransitionEventInit : EventInit {\n  var persisted: Boolean? /* = false */\n
get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
PageTransitionEventInit(persisted: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): PageTransitionEventInit {\n  val o = js("{}")\n  o["persisted"] = persisted\n
o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return
o\n}\n\n/**\n * Exposes the JavaScript
[BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent)
to Kotlin\n */\npublic external open class BeforeUnloadEvent : Event {\n  var returnValue: String\n\n
companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET:
Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external abstract class ApplicationCache :
EventTarget {\n  open val status: Short\n  open var onchecking: ((Event) -> dynamic)?\n  open var onerror:
((Event) -> dynamic)?\n  open var onnoupdate: ((Event) -> dynamic)?\n  open var ondownloading: ((Event) ->
dynamic)?\n  open var onprogress: ((ProgressEvent) -> dynamic)?\n  open var onupdateready: ((Event) ->
dynamic)?\n  open var oncached: ((Event) -> dynamic)?\n  open var onobsolete: ((Event) -> dynamic)?\n  fun
update()\n  fun abort()\n  fun swapCache()\n\n  companion object {\n    val UNCACHED: Short\n    val
IDLE: Short\n    val CHECKING: Short\n    val DOWNLOADING: Short\n
    val UPDATEREADY: Short\n    val OBSOLETE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin\n */\npublic

```

```

external interface NavigatorOnLine {
    val onLine: Boolean
}
/**
 * Exposes the JavaScript
 [ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin
 */
public external open class ErrorEvent(
    type: String, eventInitDict: ErrorEventInit = definedExternally
) : Event {
    open val message: String
    open val filename: String
    open val lineno: Int
    open val colno: Int
    open val error: Any?
}
companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}
public external interface ErrorEventInit : EventInit {
    var message: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
    var filename: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
    var lineno: Int? /* = 0 */
    get() = definedExternally
    set(value) = definedExternally
    var colno: Int? /* = 0 */
    get() = definedExternally
    set(value) = definedExternally
    var error: Any? /* = null */
    get() = definedExternally
    set(value) = definedExternally
}
@kotlin.internal.InlineOnly
public inline fun ErrorEventInit(
    message: String? = "", filename: String? = "", lineno: Int? = 0, colno: Int? = 0, error: Any? = null,
    bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false
): ErrorEventInit {
    val o = js("{}")
    o["message"] = message
    o["filename"] = filename
    o["lineno"] = lineno
    o["colno"] = colno
    o["error"] = error
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
/**
 * Exposes the JavaScript
 [PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin
 */
public external open class PromiseRejectionEvent(
    type: String, eventInitDict: PromiseRejectionEventInit
) : Event {
    open val promise: Promise<Any?>
    open val reason: Any?
}
companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}
public external interface PromiseRejectionEventInit : EventInit {
    var promise: Promise<Any?>
    get() = definedExternally
    set(value) = definedExternally
    var reason: Any?
    get() = definedExternally
    set(value) = definedExternally
}
@kotlin.internal.InlineOnly
public inline fun PromiseRejectionEventInit(
    promise: Promise<Any?>?, reason: Any? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false
): PromiseRejectionEventInit {
    val o = js("{}")
    o["promise"] = promise
    o["reason"] = reason
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
/**
 * Exposes the JavaScript
 [GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin
 */
public external interface GlobalEventHandlers {
    var onabort: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var onblur: ((FocusEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var oncancel: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var oncanplay: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var oncanplaythrough: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var onchange: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var onclick: ((MouseEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var onclose: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var oncontextmenu: ((MouseEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var oncuechange: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondblclick: ((MouseEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondrag: ((DragEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondragend: ((DragEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondragenter: ((DragEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondragexit: ((DragEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondragleave: ((DragEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondragover: ((DragEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondragstart: ((DragEvent) -> dynamic)?
    get() = definedExternally
}

```

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set(value) = definedExternally\n  var ondrop: ((DragEvent) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var ondurationchange: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onemptied: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onended: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n
var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var onfocus: ((FocusEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var oninput: ((InputEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var oninvalid: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var onkeydown: ((KeyboardEvent) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onkeypress: ((KeyboardEvent) -> dynamic)?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var onkeyup: ((KeyboardEvent) -> dynamic)?\n
get() = definedExternally\n  set(value) = definedExternally\n  var onload: ((Event) -> dynamic)?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var onloadeddata:
((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var
onloadedmetadata: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n
var onloadend: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var
onloadstart: ((ProgressEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n
var onmousedown: ((MouseEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var onmouseenter: ((MouseEvent) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onmouseleave: ((MouseEvent) -> dynamic)?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var onmousemove: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n  set(value) = definedExternally\n  var onmouseout: ((MouseEvent)
-> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var onmouseover:
((MouseEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var
onmouseup: ((MouseEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n
var onwheel: ((WheelEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n
var onpause: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var
onplay: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var
onplaying: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var
onprogress: ((ProgressEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n
var onratechange: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onreset: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onresize: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onscroll: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onseeked: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onseeking: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onselect: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onshow: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onstalled: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onsubmit: ((Event)
-> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var onsuspend: ((Event) ->
dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var ontimeupdate: ((Event) ->
dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var ontoggle: ((Event) ->
dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var onvolumechange: ((Event) -
> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var onwaiting: ((Event) ->
dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var ongotpointercapture:
((PointerEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var

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onlostpointercapture: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onpointerdown: ((PointerEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n    var onpointermove: ((PointerEvent) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onpointerup:
((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onpointercancel: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onpointerover: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onpointerout: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onpointerenter: ((PointerEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onpointerleave: ((PointerEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n}\n\n**\n * Exposes
the JavaScript [WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to
Kotlin\n *\npublic external interface WindowEventHandlers {\n    var onafterprint: ((Event) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onbeforeprint: ((Event) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onbeforeunload: ((BeforeUnloadEvent) ->
String?)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onhashchange:
((HashChangeEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onlanguagechange: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onmessage: ((MessageEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onoffline: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var ononline: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onpagehide: ((PageTransitionEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onpageshow: ((PageTransitionEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onpopstate: ((PopStateEvent) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onrejectionhandled:
((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onstorage:
((StorageEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onunload: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\npublic external interface DocumentAndElementEventHandlers {\n    var
oncopy: ((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var oncut: ((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onpaste: ((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n**\n * Exposes the JavaScript
[WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope)
to Kotlin\n *\npublic external interface WindowOrWorkerGlobalScope {\n    val origin: String\n    val caches:
CacheStorage\n    fun btoa(data: String): String\n    fun atob(data: String): String\n    fun setTimeout(handler:
dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n    fun clearTimeout(handle: Int =
definedExternally)\n    fun setInterval(handler:
dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n    fun clearInterval(handle: Int =
definedExternally)\n    fun createImageBitmap(image: ImageBitmapSource, options: ImageBitmapOptions =
definedExternally): Promise<ImageBitmap>\n    fun createImageBitmap(image: ImageBitmapSource, sx: Int, sy:
Int, sw: Int, sh: Int, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n    fun
fetch(input: dynamic, init: RequestInit = definedExternally): Promise<Response>\n}\n\n**\n * Exposes the
JavaScript [Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\n *\npublic external
abstract class Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils,
NavigatorCookies, NavigatorPlugins, NavigatorConcurrentHardware {\n    open val clipboard: Clipboard\n    open
val mediaDevices: MediaDevices\n    open val maxTouchPoints: Int\n    open val serviceWorker:

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ServiceWorkerContainer\n fun requestMediaKeySystemAccess(keySystem:
String, supportedConfigurations: Array<MediaKeySystemConfiguration>): Promise<MediaKeySystemAccess>\n
fun getUserMedia(constraints: MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback:
(dynamic) -> Unit)\n fun vibrate(pattern: dynamic): Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\n */\n\npublic external interface
NavigatorID {\n val appCodeName: String\n val appName: String\n val appVersion: String\n val platform:
String\n val product: String\n val productSub: String\n val userAgent: String\n val vendor: String\n val
vendorSub: String\n val oscpu: String\n fun taintEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin\n */\n\npublic
external interface NavigatorLanguage {\n val language: String\n val languages: Array<out
String>\n}\n\npublic external interface NavigatorContentUtils {\n fun registerProtocolHandler(scheme: String,
url: String, title: String)\n fun registerContentHandler(mimeType: String, url: String, title: String)\n fun
isProtocolHandlerRegistered(scheme: String, url: String): String\n fun isContentHandlerRegistered(mimeType:
String, url: String): String\n fun unregisterProtocolHandler(scheme: String, url: String)\n fun
unregisterContentHandler(mimeType: String, url: String)\n}\n\npublic external interface NavigatorCookies {\n val
cookieEnabled: Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin\n */\n\npublic
external interface NavigatorPlugins {\n val plugins: PluginArray\n val mimeTypes: MimeTypeError\n fun
javaEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript
[PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n */\n\npublic external
abstract class PluginArray : ItemArrayLike<Plugin> {\n fun refresh(reload: Boolean = definedExternally)\n
override fun item(index: Int): Plugin?\n fun namedItem(name: String):
Plugin?\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun PluginArray.get(index: Int): Plugin? =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun PluginArray.get(name: String):
Plugin? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\n */\n\npublic external
abstract class MimeTypeArray : ItemArrayLike<MimeType> {\n override fun item(index: Int): MimeType?\n
fun namedItem(name: String): MimeType?\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
MimeTypeArray.get(index: Int): MimeType? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\n\npublic inline
operator fun MimeTypeArray.get(name: String): MimeType? = asDynamic()[name]\n\n/**\n * Exposes the
JavaScript
[Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin\n */\n\npublic external abstract class
Plugin : ItemArrayLike<MimeType> {\n open val name: String\n open val description: String\n open val
filename: String\n override fun item(index: Int): MimeType?\n fun namedItem(name: String):
MimeType?\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun Plugin.get(index: Int): MimeType? =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun Plugin.get(name: String):
MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin\n */\n\npublic external abstract
class MimeType {\n open val type: String\n open val description: String\n open val suffixes: String\n open
val enabledPlugin: Plugin\n}\n\n/**\n * Exposes the JavaScript
[ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\n */\n\npublic external
abstract
class ImageBitmap : CanvasImageSource, TexImageSource {\n open val width: Int\n open val height: Int\n
fun close()\n}\n\npublic external interface ImageBitmapOptions {\n var imageOrientation: ImageOrientation? /* =
ImageOrientation.NONE */\n get() = definedExternally\n set(value) = definedExternally\n var
premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */\n get() = definedExternally\n
set(value) = definedExternally\n var colorSpaceConversion: ColorSpaceConversion? /* =
ColorSpaceConversion.DEFAULT */\n get() = definedExternally\n set(value) = definedExternally\n var

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resizeWidth: Int? \n    get() = definedExternally \n    set(value) = definedExternally \n    var resizeHeight: Int? \n
    get() = definedExternally \n    set(value) = definedExternally \n    var resizeQuality: ResizeQuality? /* =
ResizeQuality.LOW */ \n    get() = definedExternally \n    set(value) =
definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public
inline fun ImageBitmapOptions(imageOrientation: ImageOrientation? = ImageOrientation.NONE,
premultiplyAlpha: PremultiplyAlpha? = PremultiplyAlpha.DEFAULT, colorSpaceConversion:
ColorSpaceConversion? = ColorSpaceConversion.DEFAULT, resizeMode: Int? = undefined, resizeMode: Int? =
undefined, resizeMode: ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions { \n    val o = js("{}") \n
o["imageOrientation"] = imageOrientation \n    o["premultiplyAlpha"] = premultiplyAlpha \n
o["colorSpaceConversion"] = colorSpaceConversion \n    o["resizeWidth"] = resizeMode \n    o["resizeHeight"]
= resizeMode \n    o["resizeQuality"] = resizeMode \n    return o \n} \n \n /* Exposes the JavaScript
[MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin */ \n \n public external open
class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event { \n    open val data:
Any? \n    open val origin:
String \n    open val lastEventId: String \n    open val source: UnionMessagePortOrWindowProxy? \n    open val
ports: Array<out MessagePort> \n    fun initMessageEvent(type: String, bubbles: Boolean, cancelable: Boolean, data:
Any?, origin: String, lastEventId: String, source: UnionMessagePortOrWindowProxy?, ports:
Array<MessagePort>) \n \n    companion object { \n        val NONE: Short \n        val CAPTURING_PHASE: Short \n
        val AT_TARGET: Short \n        val BUBBLING_PHASE: Short \n    } \n \n \n public external interface
MessageEventInit : EventInit { \n    var data: Any? /* = null */ \n    get() = definedExternally \n    set(value) =
definedExternally \n    var origin: String? /* = "" */ \n    get() = definedExternally \n    set(value) =
definedExternally \n    var lastEventId: String? /* = "" */ \n    get() = definedExternally \n    set(value) =
definedExternally \n    var source: UnionMessagePortOrWindowProxy? /* = null */ \n    get() =
definedExternally \n
    set(value) = definedExternally \n    var ports: Array<MessagePort>? /* = arrayOf() */ \n    get() =
definedExternally \n    set(value) = definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public inline fun
MessageEventInit(data: Any? = null, origin: String? = "", lastEventId: String? = "", source:
UnionMessagePortOrWindowProxy? = null, ports: Array<MessagePort>? = arrayOf(), bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): MessageEventInit { \n    val o = js("{}") \n
o["data"] = data \n    o["origin"] = origin \n    o["lastEventId"] = lastEventId \n    o["source"] = source \n
o["ports"] = ports \n    o["bubbles"] = bubbles \n    o["cancelable"] = cancelable \n    o["composed"] =
composed \n    return o \n} \n \n /* Exposes the JavaScript
[EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin */ \n \n public external open
class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally)
: EventTarget { \n    open val url: String \n    open val withCredentials: Boolean \n    open val readyState: Short \n
var onopen: ((Event) -> dynamic)? \n    var onmessage: ((MessageEvent) -> dynamic)? \n    var onerror: ((Event) ->
dynamic)? \n    fun close() \n \n    companion object { \n        val CONNECTING: Short \n        val OPEN: Short \n
        val CLOSED: Short \n    } \n \n \n public external interface EventSourceInit { \n    var withCredentials: Boolean? /* =
false */ \n    get() = definedExternally \n    set(value) =
definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public inline fun EventSourceInit(withCredentials: Boolean?
= false): EventSourceInit { \n    val o = js("{}") \n    o["withCredentials"] = withCredentials \n    return
o \n} \n \n /* Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to
Kotlin */ \n \n public external open class WebSocket(url: String, protocols: dynamic = definedExternally) :
EventTarget { \n
    open val url: String \n    open val readyState: Short \n    open val bufferedAmount: Number \n    var onopen:
((Event) -> dynamic)? \n    var onerror: ((Event) -> dynamic)? \n    var onclose: ((Event) -> dynamic)? \n    open val
extensions: String \n    open val protocol: String \n    var onmessage: ((MessageEvent) -> dynamic)? \n    var
binaryType: BinaryType \n    fun close(code: Short = definedExternally, reason: String = definedExternally) \n    fun

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send(data: String)\n fun send(data: Blob)\n fun send(data: ArrayBuffer)\n fun send(data:
ArrayBufferView)\n\n companion object {\n val CONNECTING: Short\n val OPEN: Short\n val
CLOSING: Short\n val CLOSED: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin\n */\npublic external open class
CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {\n open val wasClean:
Boolean\n open val code: Short\n
open val reason: String\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE:
Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface
CloseEventInit : EventInit {\n var wasClean: Boolean? /* = false */\n get() = definedExternally\n
set(value) = definedExternally\n var code: Short? /* = 0 */\n get() = definedExternally\n set(value) =
definedExternally\n var reason: String? /* = "" */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun CloseEventInit(wasClean: Boolean? = false,
code: Short? = 0, reason: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): CloseEventInit {\n val o = js("{})\n o["wasClean"] = wasClean\n o["code"] = code\n
o["reason"] = reason\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n
o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin\n */\npublic external
open class MessageChannel {\n open val port1: MessagePort\n open val port2: MessagePort\n}\n\n/**\n *
Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\n
*/\npublic external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy,
UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n open var onmessage:
((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> =
definedExternally)\n fun start()\n fun close()\n}\n\n/**\n * Exposes the JavaScript
[BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin\n */\npublic
external open class BroadcastChannel(name: String) : EventTarget {\n open val name: String\n var
onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?)\n fun close()\n}\n\n/**\n *
Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope)
to Kotlin\n */\npublic external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope,
GlobalPerformance {\n open val self: WorkerGlobalScope\n open val location: WorkerLocation\n open val
navigator: WorkerNavigator\n open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n open var
onlanguagechange: ((Event) -> dynamic)?\n open var onoffline: ((Event) -> dynamic)?\n open var ononline:
((Event) -> dynamic)?\n open var onrejectionhandled: ((Event) -> dynamic)?\n open var onunhandledrejection:
((PromiseRejectionEvent) -> dynamic)?\n fun importScripts(vararg urls: String)\n}\n\n/**\n * Exposes the
JavaScript
[DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to
Kotlin\n
*/\npublic external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {\n open var onmessage:
((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> =
definedExternally)\n fun close()\n}\n\n/**\n * Exposes the JavaScript
[SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to
Kotlin\n */\npublic external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {\n open val name:
String\n open val applicationCache: ApplicationCache\n open var onconnect: ((Event) -> dynamic)?\n fun
close()\n}\n\n/**\n * Exposes the JavaScript
[AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin\n */\npublic external
interface AbstractWorker {\n var onerror: ((Event) -> dynamic)?\n get() = definedExternally\n set(value)
= definedExternally\n}\n\n/**\n * Exposes the JavaScript
[Worker](https://developer.mozilla.org/en/docs/Web/API/Worker)

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to Kotlin\n *^\\npublic external open class Worker(scriptURL: String, options: WorkerOptions = definedExternally)
: EventTarget, AbstractWorker {\n  var onmessage: ((MessageEvent) -> dynamic)?\n  override var onerror:
((Event) -> dynamic)?\n  fun terminate()\n  fun postMessage(message: Any?, transfer: Array<dynamic> =
definedExternally)\n}\n\npublic external interface WorkerOptions {\n  var type: WorkerType? /* =
WorkerType.CLASSIC */\n  get() = definedExternally\n  set(value) = definedExternally\n  var credentials:
RequestCredentials? /* = RequestCredentials.OMIT */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun WorkerOptions(type: WorkerType? =
WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {\n  val o
= js(\"({})\")\n  o[\"type\"] = type\n  o[\"credentials\"] = credentials\n  return o\n}\n\n/**\n * Exposes the
JavaScript [SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker)
to Kotlin\n *^\\npublic external open class SharedWorker(scriptURL: String, name: String = definedExternally,
options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n  open val port: MessagePort\n
override var onerror: ((Event) -> dynamic)?\n}\n\n/**\n * Exposes the JavaScript
[NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to
Kotlin\n *^\\npublic external interface NavigatorConcurrentHardware {\n  val hardwareConcurrency:
Number\n}\n\n/**\n * Exposes the JavaScript
[WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin\n *^\\npublic
external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine,
NavigatorConcurrentHardware {\n  open val serviceWorker: ServiceWorkerContainer\n}\n\n/**\n * Exposes the
JavaScript [WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation)
to Kotlin\n *^\\npublic external abstract class WorkerLocation {\n  open val href: String\n  open val origin:
String\n  open val protocol: String\n  open val host: String\n  open val hostname: String\n  open val port:
String\n  open val pathname: String\n  open val search: String\n  open val hash: String\n}\n\n/**\n * Exposes the
JavaScript [Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin\n *^\\npublic external
abstract class Storage {\n  open val length: Int\n  fun key(index: Int): String?\n  fun removeItem(key: String)\n
fun clear()\n  fun getItem(key: String): String?\n  fun setItem(key: String, value:
String)\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.get(key: String): String? =
asDynamic()[key]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.set(key: String, value: String)
{ asDynamic()[key] = value }\n\n/**\n * Exposes the JavaScript
[WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage)
to Kotlin\n *^\\npublic external interface WindowSessionStorage {\n  val sessionStorage: Storage\n}\n\n/**\n *
Exposes the JavaScript
[WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin\n
*^\\npublic external interface WindowLocalStorage {\n  val localStorage: Storage\n}\n\n/**\n * Exposes the
JavaScript [StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin\n *^\\npublic
external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {\n
open val key: String?\n  open val oldValue: String?\n  open val newValue: String?\n  open val url: String\n
open val storageArea: Storage?\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE:
Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface
StorageEventInit : EventInit {\n
  var key: String? /* = null */\n  get() = definedExternally\n  set(value) = definedExternally\n  var
oldValue: String? /* = null */\n  get() = definedExternally\n  set(value) = definedExternally\n  var
newValue: String? /* = null */\n  get() = definedExternally\n  set(value) = definedExternally\n  var url:
String? /* = \"\" */\n  get() = definedExternally\n  set(value) = definedExternally\n  var storageArea:
Storage? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun StorageEventInit(key: String? = null,
oldValue: String? = null, newValue: String? = null, url: String? = \"\", storageArea: Storage? = null, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {\n  val o =

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js("{}")\n o["key"] = key\n o["oldValue"] = oldValue\n o["newValue"] = newValue\n o["url"] =
url\n
o["storageArea"] = storageArea\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n
o["composed"] = composed\n return o\n}\n\npublic external abstract class HTMLAppletElement :
HTMLElement {\n open var align: String\n open var alt: String\n open var archive: String\n open var code:
String\n open var codeBase: String\n open var height: String\n open var hspace: Int\n open var name:
String\n open var _object: String\n open var vspace: Int\n open var width: String\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n
val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING:
Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val
DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the
JavaScript [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to
Kotlin\n */\n\npublic external abstract class HTMLMarqueeElement : HTMLElement {\n open var behavior:
String\n open var bgColor: String\n open var direction: String\n open var height: String\n open var hspace:
Int\n open var loop: Int\n open var scrollAmount: Int\n open var scrollDelay: Int\n open var trueSpeed:
Boolean\n open var vspace: Int\n open var width: String\n open var onbounce: ((Event) -> dynamic)?\n open
var onfinish: ((Event) -> dynamic)?\n open var onstart: ((Event) -> dynamic)?\n fun start()\n fun
stop()\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin\n
*/\n\npublic external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers
{\n open var cols: String\n open var rows: String\n\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
HTMLFrameElement : HTMLElement {\n open var name: String\n open var scrolling: String\n open var src:
String\n open var frameBorder: String\n open var longDesc: String\n open var noResize: Boolean\n open val
contentDocument: Document?\n open val contentWindow: Window?\n open var marginHeight: String\n open
var marginWidth: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val

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ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n    }\n}\n\npublic external abstract class HTMLDirectoryElement : HTMLInputElement {\n    open var compact:
Boolean\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFontElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFontElement)
to Kotlin\n */\n\npublic external abstract class HTMLFontElement : HTMLInputElement {\n    open var color: String\n
open var face: String\n    open var size: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
interface External {\n    fun AddSearchProvider()\n    fun IsSearchProviderInstalled()\n}\n\npublic external
interface EventInit {\n    var bubbles: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var cancelable: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var composed: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun EventInit(bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): EventInit {\n    val o = js("{}")\n    o["bubbles"] =
bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\n/**\n * Exposes the
JavaScript [CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\n */\n\npublic
external open class CustomEvent(type: String, eventInitDict: CustomEventInit =
definedExternally) : Event {\n    open val detail: Any?\n    fun initCustomEvent(type: String, bubbles: Boolean,
cancelable: Boolean, detail: Any?)\n\n    companion object {\n        val NONE: Short\n        val
CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface CustomEventInit : EventInit {\n    var detail: Any? /* = null */\n        get() =
definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
CustomEventInit(detail: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean?
= false): CustomEventInit {\n    val o = js("{}")\n    o["detail"] = detail\n    o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\npublic external interface
EventListenerOptions {\n    var capture: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =

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definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun EventListenerOptions(capture: Boolean? = false): EventListenerOptions {\n  val o = js("{}")\n
o["capture"] = capture\n  return o\n}\n\npublic external interface AddEventListenerOptions :
EventListenerOptions {\n  var passive: Boolean? /* = false */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var once: Boolean? /* = false */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun AddEventListenerOptions(passive:
Boolean? = false, once: Boolean? = false, capture: Boolean? = false): AddEventListenerOptions {\n  val o =
js("{}")\n  o["passive"] = passive\n  o["once"] = once\n  o["capture"] = capture\n  return o\n}\n\npublic
external interface NonElementParentNode {\n  fun getElementById(elementId: String): Element?\n}\n\n/**\n *
Exposes the JavaScript
[DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot)
to Kotlin\n\n */\n\npublic external interface DocumentOrShadowRoot {\n  val fullscreenElement: Element?\n
get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript
[ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin\n\n */\n\npublic external interface
ParentNode {\n  val children: HTMLCollection\n  val firstElementChild: Element?\n  get() =
definedExternally\n  val lastElementChild: Element?\n  get() = definedExternally\n  val childElementCount:
Int\n  fun prepend(vararg nodes: dynamic)\n  fun append(vararg nodes: dynamic)\n  fun querySelector(selectors:
String): Element?\n  fun querySelectorAll(selectors: String): NodeList\n}\n\n/**\n * Exposes the JavaScript
[NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to
Kotlin\n\n */\n\npublic external interface NonDocumentTypeChildNode {\n  val previousElementSibling: Element?\n
get() = definedExternally\n  val nextElementSibling: Element?\n  get() = definedExternally\n}\n\n/**\n *
Exposes the JavaScript [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\n\n
*/\n\npublic external interface ChildNode {\n  fun before(vararg nodes: dynamic)\n  fun after(vararg nodes:
dynamic)\n  fun replaceWith(vararg nodes: dynamic)\n  fun remove()\n}\n\n/**\n * Exposes the JavaScript
[Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin\n\n */\n\npublic external interface Slotable
{\n  val assignedSlot: HTMLSlotElement?\n  get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript
[NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin\n\n */\n\npublic external abstract class
NodeList : ItemArrayLike<Node> {\n  override fun item(index: Int):
Node?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun NodeList.get(index: Int): Node? =
asDynamic()[index]\n\n/**\n * Exposes the
JavaScript [HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin\n\n
*/\n\npublic external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection
{\n  override fun item(index: Int): Element?\n  fun namedItem(name: String):
Element?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLCollection.get(index: Int): Element?
= asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLCollection.get(name:
String): Element? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver) to Kotlin\n\n */\n\npublic
external open class MutationObserver(callback: (Array<MutationRecord>, MutationObserver) -> Unit) {\n  fun
observe(target: Node, options: MutationObserverInit = definedExternally)\n  fun disconnect()\n  fun
takeRecords(): Array<MutationRecord>\n}\n\n/**\n * Exposes the JavaScript
[MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit)
to Kotlin\n\n */\n\npublic external interface MutationObserverInit {\n  var childList: Boolean? /* = false */\n
get() =
definedExternally\n  set(value) = definedExternally\n  var attributes: Boolean?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var characterData: Boolean?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var subtree: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var attributeOldValue: Boolean?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var characterDataOldValue: Boolean?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var attributeFilter: Array<String>?\n  get() =

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definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
MutationObserverInit(childList:
    Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? = undefined, subtree: Boolean? =
false, attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? = undefined, attributeFilter:
Array<String>? = undefined): MutationObserverInit {\n    val o = js("{}")\n    o["childList"] = childList\n
o["attributes"] = attributes\n    o["characterData"] = characterData\n    o["subtree"] = subtree\n
o["attributeOldValue"] = attributeOldValue\n    o["characterDataOldValue"] = characterDataOldValue\n
o["attributeFilter"] = attributeFilter\n    return o\n}\n\n/**\n * Exposes the JavaScript
[MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin\n *\npublic external
abstract class MutationRecord {\n    open val type: String\n    open val target: Node\n    open val addedNodes:
NodeList\n    open val removedNodes: NodeList\n    open val previousSibling: Node?\n    open val nextSibling:
Node?\n    open val
        attributeName: String?\n    open val attributeNamespace: String?\n    open val oldValue: String?\n}\n\n/**\n *
Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to Kotlin\n *\npublic external
abstract class Node : EventTarget {\n    open val nodeType: Short\n    open val nodeName: String\n    open val
baseURI: String\n    open val isConnected: Boolean\n    open val ownerDocument: Document?\n    open val
parentNode: Node?\n    open val parentElement: Element?\n    open val childNodes: NodeList\n    open val
firstChild: Node?\n    open val lastChild: Node?\n    open val previousSibling: Node?\n    open val nextSibling:
Node?\n    open var nodeValue: String?\n    open var textContent: String?\n    fun getRootNode(options:
GetRootNodeOptions = definedExternally): Node\n    fun hasChildNodes(): Boolean\n    fun normalize()\n    fun
cloneNode(deep: Boolean = definedExternally): Node\n    fun isEqualNode(otherNode: Node?): Boolean\n    fun
isSameNode(otherNode:
Node?): Boolean\n    fun compareDocumentPosition(other: Node): Short\n    fun contains(other: Node?): Boolean\n
fun lookupPrefix(namespace: String?): String?\n    fun lookupNamespaceURI(prefix: String?): String?\n    fun
isDefaultNamespace(namespace: String?): Boolean\n    fun insertBefore(node: Node, child: Node?): Node\n    fun
appendChild(node: Node): Node\n    fun replaceChild(node: Node, child: Node): Node\n    fun removeChild(child:
Node): Node\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING:
Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val
DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
GetRootNodeOptions {\n    var composed: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun GetRootNodeOptions(composed: Boolean?
= false): GetRootNodeOptions {\n    val o = js("{}")\n    o["composed"] = composed\n    return o\n}\n\n/**\n *
Exposes the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin\n\n
*\npublic external open class Document : Node, GlobalEventHandlers, DocumentAndElementEventHandlers,
NonElementParentNode, DocumentOrShadowRoot, ParentNode, GeometryUtils {\n    open val implementation:
DOMImplementation\n    open val URL: String\n    open val documentURI: String\n
        open val origin: String\n    open val compatMode: String\n    open val characterSet: String\n    open val charset:
String\n    open val inputEncoding: String\n    open val contentType: String\n    open val doctype: DocumentType?\n
        open val documentElement: Element?\n    open val location: Location?\n        var domain: String\n    open val
referrer: String\n        var cookie: String\n    open val lastModified: String\n    open val readyState:
DocumentReadyState\n        var title: String\n        var dir: String\n        var body: HTMLElement?\n    open val head:

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HTMLHeadElement? \n open val images: HTMLCollection \n open val embeds: HTMLCollection \n open val
plugins: HTMLCollection \n open val links: HTMLCollection \n open val forms: HTMLCollection \n open val
scripts: HTMLCollection \n open val currentScript: HTMLScriptElement? \n open val defaultView:
Window? \n open val activeElement: Element? \n var designMode: String \n var onreadystatechange: ((Event) ->
dynamic)? \n
var fgColor: String \n var linkColor: String \n var vlinkColor: String \n var alinkColor: String \n var bgColor:
String \n open val anchors: HTMLCollection \n open val applets: HTMLCollection \n open val all:
HTMLAllCollection \n open val scrollingElement: Element? \n open val styleSheets: StyleSheetList \n open val
rootElement: SVGSVGElement? \n open val fullscreenEnabled: Boolean \n open val fullscreen: Boolean \n var
onfullscreenchange: ((Event) -> dynamic)? \n var onfullscreenerror: ((Event) -> dynamic)? \n override var
onabort: ((Event) -> dynamic)? \n override var onblur: ((FocusEvent) -> dynamic)? \n override var onCancel:
((Event) -> dynamic)? \n override var oncanplay: ((Event) -> dynamic)? \n override var oncanplaythrough:
((Event) -> dynamic)? \n override var onChange: ((Event) -> dynamic)? \n override var onclick: ((MouseEvent) ->
dynamic)? \n override var onclose: ((Event) -> dynamic)? \n override var oncontextmenu:
((MouseEvent) -> dynamic)? \n override var oncuechange: ((Event) -> dynamic)? \n override var ondblclick:
((MouseEvent) -> dynamic)? \n override var ondrag: ((DragEvent) -> dynamic)? \n override var ondragend:
((DragEvent) -> dynamic)? \n override var ondragenter: ((DragEvent) -> dynamic)? \n override var ondragexit:
((DragEvent) -> dynamic)? \n override var ondragleave: ((DragEvent) -> dynamic)? \n override var ondragover:
((DragEvent) -> dynamic)? \n override var ondragstart: ((DragEvent) -> dynamic)? \n override var ondrop:
((DragEvent) -> dynamic)? \n override var ondurationchange: ((Event) -> dynamic)? \n override var onemptied:
((Event) -> dynamic)? \n override var onended: ((Event) -> dynamic)? \n override var onerror: ((dynamic, String,
Int, Int, Any?) -> dynamic)? \n override var onfocus: ((FocusEvent) -> dynamic)? \n override var oninput:
((InputEvent) -> dynamic)? \n override var oninvalid: ((Event) -> dynamic)? \n override var onkeydown:
((KeyboardEvent) -> dynamic)? \n override var onkeypress: ((KeyboardEvent) -> dynamic)? \n override var
onkeyup: ((KeyboardEvent) -> dynamic)? \n override var onload: ((Event) -> dynamic)? \n override var
onloadeddata: ((Event) -> dynamic)? \n override var onloadedmetadata: ((Event) -> dynamic)? \n override var
onloadend: ((Event) -> dynamic)? \n override var onloadstart: ((ProgressEvent) -> dynamic)? \n override var
onmousedown: ((MouseEvent) -> dynamic)? \n override var onmouseenter: ((MouseEvent) -> dynamic)? \n
override var onmouseleave: ((MouseEvent) -> dynamic)? \n override var onmousemove: ((MouseEvent) ->
dynamic)? \n override var onmouseout: ((MouseEvent) -> dynamic)? \n override var onmouseover:
((MouseEvent) -> dynamic)? \n override var onmouseup: ((MouseEvent) -> dynamic)? \n override var onwheel:
((WheelEvent) -> dynamic)? \n override var onpause: ((Event) -> dynamic)? \n override var onplay: ((Event) ->
dynamic)? \n override var onplaying:
((Event) -> dynamic)? \n override var onprogress: ((ProgressEvent) -> dynamic)? \n override var onratechange:
((Event) -> dynamic)? \n override var onreset: ((Event) -> dynamic)? \n override var onresize: ((Event) ->
dynamic)? \n override var onscroll: ((Event) -> dynamic)? \n override var onseeked: ((Event) -> dynamic)? \n
override var onseeking: ((Event) -> dynamic)? \n override var onselect: ((Event) -> dynamic)? \n override var
onshow: ((Event) -> dynamic)? \n override var onstalled: ((Event) -> dynamic)? \n override var onsubmit:
((Event) -> dynamic)? \n override var onsuspend: ((Event) -> dynamic)? \n override var ontimeupdate: ((Event) ->
dynamic)? \n override var ontoggle: ((Event) -> dynamic)? \n override var onvolumechange: ((Event) ->
dynamic)? \n override var onwaiting: ((Event) -> dynamic)? \n override var ongotpointercapture: ((PointerEvent)
-> dynamic)? \n override var onlostpointercapture: ((PointerEvent) -> dynamic)? \n override
var onpointerdown: ((PointerEvent) -> dynamic)? \n override var onpointermove: ((PointerEvent) -> dynamic)? \n
override var onpointerup: ((PointerEvent) -> dynamic)? \n override var onpointercancel: ((PointerEvent) ->
dynamic)? \n override var onpointerover: ((PointerEvent) -> dynamic)? \n override var onpointerout:
((PointerEvent) -> dynamic)? \n override var onpointerenter: ((PointerEvent) -> dynamic)? \n override var
onpointerleave: ((PointerEvent) -> dynamic)? \n override var oncopy: ((ClipboardEvent) -> dynamic)? \n override
var oncut: ((ClipboardEvent) -> dynamic)? \n override var onpaste: ((ClipboardEvent) -> dynamic)? \n override

```

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val fullscreenElement: Element?\n  override val children: HTMLCollection\n  override val firstElementChild:
Element?\n  override val lastElementChild: Element?\n  override val childElementCount: Int\n  fun
getElementsByTagName(qualifiedName: String): HTMLCollection\n  fun
getElementsByTagNameNS(namespace: String?,
  localName: String): HTMLCollection\n  fun getElementsByClassName(classNames: String): HTMLCollection\n
fun createElement(localName: String, options: ElementCreationOptions = definedExternally): Element\n  fun
createElementNS(namespace: String?, qualifiedName: String, options: ElementCreationOptions =
  definedExternally): Element\n  fun createDocumentFragment(): DocumentFragment\n  fun createTextNode(data:
  String): Text\n  fun createCDATASection(data: String): CDATASection\n  fun createComment(data: String):
  Comment\n  fun createProcessingInstruction(target: String, data: String): ProcessingInstruction\n  fun
importNode(node: Node, deep: Boolean = definedExternally): Node\n  fun adoptNode(node: Node): Node\n  fun
createAttribute(localName: String): Attr\n  fun createAttributeNS(namespace: String?, qualifiedName: String):
  Attr\n  fun createEvent(`interface`: String): Event\n  fun createRange(): Range\n  fun createNodeIterator(root:
  Node, whatToShow: Int = definedExternally,
  filter: NodeFilter? = definedExternally): NodeIterator\n  fun createNodeIterator(root: Node, whatToShow: Int =
  definedExternally, filter: ((Node) -> Short)? = definedExternally): NodeIterator\n  fun createTreeWalker(root:
  Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): TreeWalker\n  fun
createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? =
  definedExternally): TreeWalker\n  fun getElementsByName(elementName: String): NodeList\n  fun open(type:
  String = definedExternally, replace: String = definedExternally): Document\n  fun open(url: String, name: String,
  features: String): Window\n  fun close()\n  fun write(vararg text: String)\n  fun writeln(vararg text: String)\n
fun hasFocus(): Boolean\n  fun execCommand(commandId: String, showUI: Boolean = definedExternally, value:
  String = definedExternally): Boolean\n  fun queryCommandEnabled(commandId: String): Boolean\n  fun
queryCommandIndeterm(commandId: String): Boolean\n  fun queryCommandState(commandId: String):
  Boolean\n  fun queryCommandSupported(commandId: String): Boolean\n  fun
queryCommandValue(commandId: String): String\n  fun clear()\n  fun captureEvents()\n  fun releaseEvents()\n
fun elementFromPoint(x: Double, y: Double): Element?\n  fun elementsFromPoint(x: Double, y: Double):
  Array<Element>\n  fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?\n  fun createTouch(view:
  Window, target: EventTarget, identifier: Int, pageX: Int, pageY: Int, screenX: Int, screenY: Int): Touch\n  fun
createTouchList(vararg touches: Touch): TouchList\n  fun exitFullscreen(): Promise<Unit>\n  override fun
getElementById(elementId: String): Element?\n  override fun prepend(vararg nodes: dynamic)\n  override fun
append(vararg nodes: dynamic)\n  override fun querySelector(selectors: String): Element?\n  override fun
querySelectorAll(selectors: String): NodeList\n
  override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n  override
fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
  definedExternally */): DOMQuad\n  override fun convertRectFromNode(rect: DOMRectReadOnly, from:
  dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
  definedExternally */): DOMPoint\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n

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}\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Document.get(name: String): dynamic =
asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin\n *\npublic external
open class XMLDocument : Document {\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE:
        Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n
        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
        Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
interface ElementCreationOptions {\n    var `is`: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ElementCreationOptions(`is`: String? =
undefined): ElementCreationOptions {\n    val o = js("\n\n({})")\n    o["is"] = `is`\n    return o\n}\n\n/**\n * Exposes
the JavaScript [DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to
Kotlin\n *\npublic external abstract class DOMImplementation {\n    fun createDocumentType(qualifiedName:
String, publicId: String, systemId: String):
DocumentType\n    fun createDocument(namespace: String?, qualifiedName: String, doctype: DocumentType? =
definedExternally): XMLDocument\n    fun createHTMLDocument(title: String = definedExternally): Document\n
fun hasFeature(): Boolean\n}\n\n/**\n * Exposes the JavaScript
[DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to Kotlin\n *\npublic external
abstract class DocumentType : Node, ChildNode {\n    open val name: String\n    open val publicId: String\n    open
val systemId: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin\n *\npublic
external open class DocumentFragment : Node, NonElementParentNode, ParentNode {\n    override val children:
HTMLCollection\n    override val firstElementChild: Element?\n    override val lastElementChild: Element?\n
override val childElementCount: Int\n    override fun getElementById(elementId: String): Element?\n    override fun
prepend(vararg nodes: dynamic)\n    override fun append(vararg nodes: dynamic)\n    override fun
querySelector(selectors: String): Element?\n    override fun querySelectorAll(selectors: String): NodeList\n\n
companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin\n *\npublic external open
class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {\n    open val mode: ShadowRootMode\n
    open val host: Element\n    override val fullscreenElement: Element?\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin\n *\npublic external abstract
class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils,
UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent,
UnionElementOrProcessingInstruction {\n    open val namespaceURI: String?\n    open val prefix: String?\n
    open val localName: String\n    open val tagName: String\n    open var id: String\n    open var className: String\n
    open val classList: DOMTokenList\n    open var slot: String\n    open val attributes: NamedNodeMap\n
    open val shadowRoot: ShadowRoot?\n    open var scrollTop: Double\n    open var scrollLeft: Double\n
    open val scrollWidth: Int\n    open val scrollHeight: Int\n    open val clientTop: Int\n    open val clientLeft: Int\n
    open val clientWidth: Int\n    open val clientHeight: Int\n    open var innerHTML: String\n    open var outerHTML: String\n
    fun hasAttributes(): Boolean\n    fun getAttributeNames(): Array<String>\n    fun getAttribute(qualifiedName:
String): String?\n
        fun getAttributeNS(namespace: String?, localName: String): String?\n    fun setAttribute(qualifiedName: String,
value: String)\n    fun setAttributeNS(namespace: String?, qualifiedName: String, value: String)\n    fun
removeAttribute(qualifiedName: String)\n    fun removeAttributeNS(namespace: String?, localName: String)\n
    fun hasAttribute(qualifiedName: String): Boolean\n    fun hasAttributeNS(namespace: String?, localName: String):
Boolean\n    fun getAttributeNode(qualifiedName: String): Attr?\n    fun getAttributeNodeNS(namespace: String?,
localName: String): Attr?\n    fun setAttributeNode(attr: Attr): Attr?\n    fun setAttributeNodeNS(attr: Attr): Attr?\n
    fun removeAttributeNode(attr: Attr): Attr\n    fun attachShadow(init: ShadowRootInit): ShadowRoot\n    fun
closest(selectors: String): Element?\n    fun matches(selectors: String): Boolean\n    fun
webkitMatchesSelector(selectors: String): Boolean\n    fun getElementsByTagName(qualifiedName: String):
HTMLCollection\n
        fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n    fun
getElementsByTagName(className: String): HTMLCollection\n    fun insertAdjacentElement(where: String,
element: Element): Element?\n    fun insertAdjacentText(where: String, data: String)\n    fun getClientRects():
Array<DOMRect>\n    fun getBoundingClientRect(): DOMRect\n    fun scrollIntoView()\n    fun
scrollIntoView(arg: dynamic)\n    fun scroll(options: ScrollToOptions = definedExternally)\n    fun scroll(x: Double,
y: Double)\n    fun scrollTo(options: ScrollToOptions = definedExternally)\n    fun scrollTo(x: Double, y: Double)\n
    fun scrollBy(options: ScrollToOptions = definedExternally)\n    fun scrollBy(x: Double, y: Double)\n    fun
insertAdjacentHTML(position: String, text: String)\n    fun setPointerCapture(pointerId: Int)\n    fun
releasePointerCapture(pointerId: Int)\n    fun hasPointerCapture(pointerId: Int): Boolean\n    fun requestFullscreen():
Promise<Unit>\n\n    companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:

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Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
ShadowRootInit {\n    var mode: ShadowRootMode?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ShadowRootInit(mode:
ShadowRootMode?):
ShadowRootInit {\n    val o = js("\({})")\n    o["mode"] = mode\n    return o\n}\n\n/**\n * Exposes the JavaScript
[NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to Kotlin\n */\npublic external
abstract class NamedNodeMap : ItemArrayLike<Attr> {\n    fun getNamedItemNS(namespace: String?, localName:
String): Attr?\n    fun setNamedItem(attr: Attr): Attr?\n    fun setNamedItemNS(attr: Attr): Attr?\n    fun
removeNamedItem(qualifiedName: String): Attr\n    fun removeNamedItemNS(namespace: String?, localName:
String): Attr\n    override fun item(index: Int): Attr?\n    fun getNamedItem(qualifiedName: String):
Attr?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun NamedNodeMap.get(index: Int): Attr? =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]\n\n/**\n * Exposes the
JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr)
to Kotlin\n */\npublic external abstract class Attr : Node {\n    open val namespaceURI: String?\n    open val prefix:
String?\n    open val localName: String\n    open val name: String\n    open var value: String\n    open val
ownerElement: Element?\n    open val specified: Boolean\n\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\n
*/\npublic external abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\n    open var
data: String\n    open val length: Int\n    fun substringData(offset: Int, count: Int): String\n    fun appendData(data:
String)\n    fun insertData(offset: Int, data: String)\n    fun deleteData(offset: Int, count: Int)\n    fun
replaceData(offset: Int, count: Int, data: String)\n\n    companion object {\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE:
Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n
        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin\n */\npublic external open
class Text(data: String = definedExternally) : CharacterData, Slotable, GeometryUtils {\n    open val wholeText:
String\n    override val assignedSlot: HTMLSlotElement?\n    override val previousElementSibling: Element?\n

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override val nextElementSibling: Element?\n fun splitText(offset: Int): Text\n override fun
getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override fun
convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions
/* = definedExternally */): DOMQuad\n override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n override fun before(vararg nodes: dynamic)\n override fun after(vararg
nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n\n companion
object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE:
Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED:
Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val
DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n/**\n * Exposes the JavaScript
[CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin\n */\npublic external
open class CDATASection : Text {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n/**\n * Exposes
the JavaScript [ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to
Kotlin\n */\npublic external abstract class ProcessingInstruction : CharacterData, LinkStyle,
UnionElementOrProcessingInstruction {\n open val target: String\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE:
Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val
DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n/**\n * Exposes
the JavaScript [Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin\n */\npublic external
open class Comment(data: String = definedExternally) : CharacterData {\n override val previousElementSibling:
Element?\n override val nextElementSibling: Element?\n override fun before(vararg nodes: dynamic)\n
override fun after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun
remove()\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:

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Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin \n * \n public external open class Range { \n
    open val startContainer: Node \n    open val startOffset: Int \n    open val endContainer: Node \n    open val
endOffset: Int \n    open val collapsed: Boolean \n    open val commonAncestorContainer: Node \n    fun setStart(node:
Node, offset: Int) \n    fun setEnd(node:
Node, offset: Int) \n    fun setStartBefore(node: Node) \n    fun setStartAfter(node: Node) \n    fun setEndBefore(node:
Node) \n    fun setEndAfter(node: Node) \n    fun collapse(toStart: Boolean = definedExternally) \n    fun
selectNode(node: Node) \n    fun selectNodeContents(node: Node) \n    fun compareBoundaryPoints(how: Short,
sourceRange: Range): Short \n    fun deleteContents() \n    fun extractContents(): DocumentFragment \n    fun
cloneContents(): DocumentFragment \n    fun insertNode(node: Node) \n    fun surroundContents(newParent: Node) \n
    fun cloneRange(): Range \n    fun detach() \n    fun isPointInRange(node: Node, offset: Int): Boolean \n    fun
comparePoint(node: Node, offset: Int): Short \n    fun intersectsNode(node: Node): Boolean \n    fun getClientRects():
Array<DOMRect> \n    fun getBoundingClientRect(): DOMRect \n    fun createContextualFragment(fragment:
String): DocumentFragment \n \n    companion object { \n        val START_TO_START: Short \n        val
START_TO_END:
Short \n        val END_TO_END: Short \n        val END_TO_START: Short \n    } \n} \n \n /** \n * Exposes the
JavaScript [NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin \n * \n public
external abstract class NodeIterator { \n    open val root: Node \n    open val referenceNode: Node \n    open val
pointerBeforeReferenceNode: Boolean \n    open val whatToShow: Int \n    open val filter: NodeFilter? \n    fun
nextNode(): Node? \n    fun previousNode(): Node? \n    fun detach() \n} \n \n /** \n * Exposes the JavaScript
[TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin \n * \n public external abstract
class TreeWalker { \n    open val root: Node \n    open val whatToShow: Int \n    open val filter: NodeFilter? \n    open
var currentNode: Node \n    fun parentNode(): Node? \n    fun firstChild(): Node? \n    fun lastChild(): Node? \n    fun
previousSibling(): Node? \n    fun nextSibling(): Node? \n    fun previousNode(): Node? \n    fun nextNode():
Node? \n} \n \n /** \n * Exposes the JavaScript [NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin \n
* \n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external interface NodeFilter { \n    fun
acceptNode(node: Node): Short \n \n    companion object { \n        val FILTER_ACCEPT: Short \n        val
FILTER_REJECT: Short \n        val FILTER_SKIP: Short \n        val SHOW_ALL: Int \n        val
SHOW_ELEMENT: Int \n        val SHOW_ATTRIBUTE: Int \n        val SHOW_TEXT: Int \n        val
SHOW_CDATA_SECTION: Int \n        val SHOW_ENTITY_REFERENCE: Int \n        val SHOW_ENTITY: Int \n        val
SHOW_PROCESSING_INSTRUCTION: Int \n        val SHOW_COMMENT: Int \n        val
SHOW_DOCUMENT: Int \n        val SHOW_DOCUMENT_TYPE: Int \n        val
SHOW_DOCUMENT_FRAGMENT: Int \n        val SHOW_NOTATION: Int \n    } \n} \n \n /** \n * Exposes the
JavaScript [DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList) to Kotlin \n * \n public
external abstract class DOMTokenList
: ItemArrayLike<String> { \n    open var value: String \n    fun contains(token: String): Boolean \n    fun add(vararg
tokens: String) \n    fun remove(vararg tokens: String) \n    fun toggle(token: String, force: Boolean =
definedExternally): Boolean \n    fun replace(token: String, newToken: String) \n    fun supports(token: String):
Boolean \n    override fun item(index: Int): String? \n} \n \n @kotlin.internal.InlineOnly \n public inline operator fun
DOMTokenList.get(index: Int): String? = asDynamic()[index] \n \n /** \n * Exposes the JavaScript
[DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin \n * \n public

```

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external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {\n  open val x: Double\n
open val y: Double\n  open val z: Double\n  open val w: Double\n  fun matrixTransform(matrix:
DOMMatrixReadOnly): DOMPoint\n}\n\n/**\n * Exposes the JavaScript
[DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin\n
*/\npublic external open class DOMPoint : DOMPointReadOnly {\n  constructor(point: DOMPointInit)\n
constructor(x: Double = definedExternally, y: Double = definedExternally, z: Double = definedExternally, w:
Double = definedExternally)\n  override var x: Double\n  override var y: Double\n  override var z: Double\n
override var w: Double\n}\n\n/**\n * Exposes the JavaScript
[DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin\n
*/\npublic external
interface DOMPointInit {\n  var x: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var y: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var z: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var w: Double? /* = 1.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
DOMPointInit(x: Double? = 0.0, y: Double? = 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {\n  val o
= js("{}")\n  o["x"] = x\n  o["y"] = y\n  o["z"] = z\n  o["w"] = w\n  return o\n}\n\n/**\n * Exposes the
JavaScript [DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin\n
*/\npublic external
open class DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double =
definedExternally, height: Double = definedExternally) : DOMRectReadOnly {\n  override var x: Double\n
override var y: Double\n  override var width: Double\n  override var height: Double\n}\n\n/**\n * Exposes the
JavaScript [DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin\n
*/\npublic external open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {\n  open
val x: Double\n  open val y: Double\n  open val width: Double\n  open val height: Double\n  open val top:
Double\n
  open val right: Double\n  open val bottom: Double\n  open val left: Double\n}\n\npublic external interface
DOMRectInit {\n  var x: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var y: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var width: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var height: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun DOMRectInit(x: Double? = 0.0, y: Double?
= 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {\n  val o = js("{}")\n  o["x"] = x\n
o["y"] = y\n  o["width"] = width\n  o["height"] = height\n  return o\n}\n\npublic external interface
DOMRectList : ItemArrayLike<DOMRect> {\n  override fun item(index: Int):
DOMRect?\n}\n\n@kotlin.internal.InlineOnly\npublic
inline operator fun DOMRectList.get(index: Int): DOMRect? = asDynamic()[index]\n\n/**\n * Exposes the
JavaScript [DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin\n
*/\npublic external
open class DOMQuad {\n  constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit =
definedExternally, p3: DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)\n
constructor(rect: DOMRectInit)\n  open val p1: DOMPoint\n  open val p2: DOMPoint\n  open val p3:
DOMPoint\n  open val p4: DOMPoint\n  open val bounds: DOMRectReadOnly\n}\n\n/**\n * Exposes the
JavaScript [DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to
Kotlin\n
*/\npublic external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {\n  open val a:
Double\n  open val b: Double\n  open val c: Double\n  open val d: Double\n  open val e: Double\n  open val f:
Double\n  open val m11: Double\n  open
  val m12: Double\n  open val m13: Double\n  open val m14: Double\n  open val m21: Double\n  open val m22:
Double\n  open val m23: Double\n  open val m24: Double\n  open val m31: Double\n  open val m32: Double\n
open val m33: Double\n  open val m34: Double\n  open val m41: Double\n  open val m42: Double\n  open val
m43: Double\n  open val m44: Double\n  open val is2D: Boolean\n  open val isIdentity: Boolean\n  fun

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translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n fun scale(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun scaleNonUniform(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun rotate(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun rotateFromVector(x: Double, y: Double): DOMMatrix\n fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\n fun skewX(sx: Double): DOMMatrix\n fun skewY(sy: Double): DOMMatrix\n fun multiply(other: DOMMatrix): DOMMatrix\n fun flipX(): DOMMatrix\n fun flipY(): DOMMatrix\n fun inverse(): DOMMatrix\n fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint\n fun toFloat32Array(): Float32Array\n fun toFloat64Array(): Float64Array\n}\n\n\*\*\n \* Exposes the JavaScript

[DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix) to Kotlin\n \*^\npublic external open class DOMMatrix() : DOMMatrixReadOnly {\n constructor(transformList: String)\n constructor(other: DOMMatrixReadOnly)\n constructor(array32: Float32Array)\n constructor(array64: Float64Array)\n constructor(numberSequence: Array<Double>)\n override var a: Double\n override var b: Double\n override var c: Double\n override var d: Double\n override var e: Double\n override var f: Double\n override var m11: Double\n override var m12: Double\n override var m13: Double\n override var m14: Double\n override var m21: Double\n override var m22: Double\n override var m23: Double\n override var m24: Double\n override var m31: Double\n override var m32: Double\n override var m33: Double\n override var m34: Double\n override var m41: Double\n override var m42: Double\n override var m43: Double\n override var m44: Double\n fun multiplySelf(other: DOMMatrix): DOMMatrix\n fun preMultiplySelf(other: DOMMatrix): DOMMatrix\n fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n fun scaleSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun scaleNonUniformSelf(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun rotateSelf(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun rotateFromVectorSelf(x: Double, y: Double): DOMMatrix\n fun rotateAxisAngleSelf(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\n fun skewXSelf(sx: Double): DOMMatrix\n fun skewYSelf(sy: Double): DOMMatrix\n fun invertSelf(): DOMMatrix\n fun setMatrixValue(transformList: String): DOMMatrix\n}\n\npublic external interface ScrollOptions {\n var behavior: ScrollBehavior? /\* = ScrollBehavior.AUTO \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ScrollOptions(behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {\n val o = js("{}")\n o["behavior"] = behavior\n return o\n}\n\n\*\*\n \* Exposes the JavaScript

[ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions) to Kotlin\n \*^\npublic external interface ScrollToOptions : ScrollOptions {\n var left: Double?\n get() = definedExternally\n set(value) = definedExternally\n var top: Double?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ScrollToOptions(left: Double? = undefined, top: Double? = undefined, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollToOptions {\n val o = js("{}")\n o["left"] = left\n o["top"] = top\n o["behavior"] = behavior\n return o\n}\n\n\*\*\n \* Exposes the JavaScript [MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList) to Kotlin\n \*^\npublic external abstract class MediaQueryList : EventTarget {\n open val media: String\n open val matches: Boolean\n open var onchange: ((Event) -> dynamic)?\n fun addListener(listener: EventListener?)\n fun addListener(listener: ((Event) -> Unit)?)\n fun removeListener(listener: EventListener?)\n fun removeListener(listener: ((Event) -> Unit)?)\n}\n\n\*\*\n \* Exposes the JavaScript

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[MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin\n
*\npublic external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit =
definedExternally) : Event {\n  open val media: String\n  open val matches: Boolean\n\n  companion object {\n
    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
    BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface MediaQueryListEventInit : EventInit
{\n  var media: String? /* = \"\" */\n  get() = definedExternally\n  set(value) = definedExternally\n  var
matches: Boolean? /* = false */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaQueryListEventInit(media: String? =
\"\", matches: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): MediaQueryListEventInit {\n  val o = js(\"({})\")\n  o[\"media\"] = media\n  o[\"matches\"] = matches\n
o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return
o\n}\n\n/**\n * Exposes the JavaScript [Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin\n
*\npublic external abstract class Screen {\n  open val availWidth: Int\n  open val availHeight: Int\n  open val
width: Int\n  open val height: Int\n  open val colorDepth: Int\n  open val pixelDepth: Int\n}\n\n/**\n
 * Exposes the JavaScript [CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin\n
*\npublic external abstract class CaretPosition {\n  open val offsetNode: Node\n  open val offset: Int\n  fun
getClientRect(): DOMRect?\n}\n\npublic external interface ScrollIntoViewOptions : ScrollOptions {\n  var block:
ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var inline: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ScrollIntoViewOptions(block: ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, inline:
ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, behavior: ScrollBehavior? = ScrollBehavior.AUTO):
ScrollIntoViewOptions {\n  val o = js(\"({})\")\n  o[\"block\"] = block\n  o[\"inline\"] = inline\n  o[\"behavior\"]
= behavior\n  return o\n}\n\npublic external interface BoxQuadOptions {\n  var box: CSSBoxType? /* =
CSSBoxType.BORDER */\n  get() = definedExternally\n  set(value) = definedExternally\n  var relativeTo:
dynamic\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun BoxQuadOptions(box: CSSBoxType? =
CSSBoxType.BORDER, relativeTo: dynamic = undefined): BoxQuadOptions {\n  val o = js(\"({})\")\n
o[\"box\"] = box\n  o[\"relativeTo\"] = relativeTo\n  return o\n}\n\npublic external interface
ConvertCoordinateOptions {\n  var fromBox: CSSBoxType? /* = CSSBoxType.BORDER */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var toBox: CSSBoxType? /* = CSSBoxType.BORDER
*/\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun ConvertCoordinateOptions(fromBox: CSSBoxType? = CSSBoxType.BORDER,
toBox: CSSBoxType? = CSSBoxType.BORDER): ConvertCoordinateOptions {\n  val o = js(\"({})\")\n
o[\"fromBox\"] = fromBox\n  o[\"toBox\"] = toBox\n  return o\n}\n\n/**\n * Exposes the JavaScript
[GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin\n
*\npublic external
interface GeometryUtils {\n  fun getBoxQuads(options: BoxQuadOptions = definedExternally):
Array<DOMQuad>\n  fun convertQuadFromNode(quad: dynamic, from: dynamic, options:
ConvertCoordinateOptions = definedExternally): DOMQuad\n  fun convertRectFromNode(rect:
DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad\n  fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions =
definedExternally): DOMPoint\n}\n\n/**\n * Exposes the JavaScript
[Touch](https://developer.mozilla.org/en/docs/Web/API/Touch) to Kotlin\n
*\npublic external abstract class Touch
{\n  open val identifier: Int\n
  open val target: EventTarget\n  open val screenX: Int\n  open val screenY: Int\n  open val clientX: Int\n  open
val clientY: Int\n  open val pageX: Int\n  open val pageY: Int\n  open val region: String?\n}\n\npublic external
abstract class TouchList : ItemArrayLike<Touch> {\n  override fun item(index: Int):
Touch?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun TouchList.get(index: Int): Touch? =

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asDynamic()[index]\n\npublic external open class TouchEvent : UIEvent {\n  open val touches: TouchList\n  open val targetTouches: TouchList\n  open val changedTouches: TouchList\n  open val altKey: Boolean\n  open val metaKey: Boolean\n  open val ctrlKey: Boolean\n  open val shiftKey: Boolean\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[Image](https://developer.mozilla.org/en/docs/Web/API/Image) to
Kotlin\n */\npublic external open class Image(width: Int = definedExternally, height: Int = definedExternally) :
HTMLImageElement {\n  override var onabort: ((Event) -> dynamic)?\n  override var onblur: ((FocusEvent) ->
dynamic)?\n  override var oncancel: ((Event) -> dynamic)?\n  override var oncanplay: ((Event) -> dynamic)?\n
override var oncanplaythrough: ((Event) -> dynamic)?\n  override var onchange: ((Event) -> dynamic)?\n
override var onclick: ((MouseEvent) -> dynamic)?\n  override var onclose: ((Event) -> dynamic)?\n  override var
oncontextmenu: ((MouseEvent) -> dynamic)?\n  override var oncuechange: ((Event) -> dynamic)?\n  override var
ondblclick: ((MouseEvent) -> dynamic)?\n  override var ondrag: ((DragEvent) -> dynamic)?\n  override var
ondragend: ((DragEvent) -> dynamic)?\n  override var ondragenter: ((DragEvent) -> dynamic)?\n  override var
ondragexit: ((DragEvent) -> dynamic)?\n  override var ondragleave: ((DragEvent) -> dynamic)?\n  override
var ondragover: ((DragEvent) -> dynamic)?\n  override var ondragstart: ((DragEvent) -> dynamic)?\n  override
var ondrop: ((DragEvent) -> dynamic)?\n  override var ondurationchange: ((Event) -> dynamic)?\n  override var
onemptied: ((Event) -> dynamic)?\n  override var onended: ((Event) -> dynamic)?\n  override var onerror:
((dynamic, String, Int, Int, Any?) -> dynamic)?\n  override var onfocus: ((FocusEvent) -> dynamic)?\n  override
var oninput: ((InputEvent) -> dynamic)?\n  override var oninvalid: ((Event) -> dynamic)?\n  override var
onkeydown: ((KeyboardEvent) -> dynamic)?\n  override var onkeypress: ((KeyboardEvent) -> dynamic)?\n
override var onkeyup: ((KeyboardEvent) -> dynamic)?\n  override var onload: ((Event) -> dynamic)?\n  override
var onloadeddata: ((Event) -> dynamic)?\n  override var onloadedmetadata: ((Event) -> dynamic)?\n  override var
onloadend: ((Event) -> dynamic)?\n  override var onloadstart: ((ProgressEvent) -> dynamic)?\n
  override var onmousedown: ((MouseEvent) -> dynamic)?\n  override var onmouseenter: ((MouseEvent) ->
dynamic)?\n  override var onmouseleave: ((MouseEvent) -> dynamic)?\n  override var onmousemove:
((MouseEvent) -> dynamic)?\n  override var onmouseout: ((MouseEvent) -> dynamic)?\n  override var
onmouseover: ((MouseEvent) -> dynamic)?\n  override var onmouseup: ((MouseEvent) -> dynamic)?\n  override
var onwheel: ((WheelEvent) -> dynamic)?\n  override var onpause: ((Event) -> dynamic)?\n  override var onplay:
((Event) -> dynamic)?\n  override var onplaying: ((Event) -> dynamic)?\n  override var onprogress:
((ProgressEvent) -> dynamic)?\n  override var onratechange: ((Event) -> dynamic)?\n  override var onreset:
((Event) -> dynamic)?\n  override var onresize: ((Event) -> dynamic)?\n  override var onscroll: ((Event) ->
dynamic)?\n  override var onseeked: ((Event) -> dynamic)?\n  override var onseeking: ((Event) -> dynamic)?\n
  override var onselect: ((Event)
-> dynamic)?\n  override var onshow: ((Event) -> dynamic)?\n  override var onstalled: ((Event) -> dynamic)?\n
  override var onsubmit: ((Event) -> dynamic)?\n  override var onsuspend: ((Event) -> dynamic)?\n  override var
ontimeupdate: ((Event) -> dynamic)?\n  override var ontoggle: ((Event) -> dynamic)?\n  override var
onvolumechange: ((Event) -> dynamic)?\n  override var onwaiting: ((Event) -> dynamic)?\n  override var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n  override var onlostpointercapture: ((PointerEvent) ->
dynamic)?\n  override var onpointerdown: ((PointerEvent) -> dynamic)?\n  override var onpointermove:
((PointerEvent) -> dynamic)?\n  override var onpointerup: ((PointerEvent) -> dynamic)?\n  override var
onpointercancel: ((PointerEvent) -> dynamic)?\n  override var onpointerover: ((PointerEvent) -> dynamic)?\n
  override var onpointerout: ((PointerEvent) -> dynamic)?\n  override var onpointerenter: ((PointerEvent) ->
dynamic)?\n
  override var onpointerleave: ((PointerEvent) -> dynamic)?\n  override var oncopy: ((ClipboardEvent) ->
dynamic)?\n  override var oncut: ((ClipboardEvent) -> dynamic)?\n  override var onpaste: ((ClipboardEvent) ->
dynamic)?\n  override var contentEditable: String\n  override val isContentEditable: Boolean\n  override val
style: CSSStyleDeclaration\n  override val children: HTMLCollection\n  override val firstElementChild:

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Element? override val lastElementChild: Element? override val childElementCount: Int override val
previousElementSibling: Element? override val nextElementSibling: Element? override val assignedSlot:
HTMLSlotElement? override fun prepend(vararg nodes: dynamic) override fun append(vararg nodes:
dynamic) override fun querySelector(selectors: String): Element? override fun querySelectorAll(selectors:
String): NodeList override fun before(vararg nodes: dynamic) override fun after(vararg nodes: dynamic)
override fun replaceWith(vararg nodes: dynamic) override fun remove() override fun
getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad> override fun
convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally
*/): DOMQuad override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options:
ConvertCoordinateOptions /* = definedExternally */): DOMQuad override fun convertPointFromNode(point:
DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n
companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n\npublic external open class
Audio(src: String = definedExternally) : HTMLAudioElement {\n    override var onabort: ((Event) -> dynamic)?\n
override var onblur: ((FocusEvent) -> dynamic)?\n    override var oncancel: ((Event) -> dynamic)?\n    override var
oncanplay: ((Event) -> dynamic)?\n    override var oncanplaythrough: ((Event) -> dynamic)?\n    override var
onchange: ((Event) -> dynamic)?\n    override var onclick: ((MouseEvent) -> dynamic)?\n    override var onclose:
((Event) -> dynamic)?\n    override var oncontextmenu: ((MouseEvent) -> dynamic)?\n    override var oncuechange:
((Event)
-> dynamic)?\n    override var ondblclick: ((MouseEvent) -> dynamic)?\n    override var ondrag: ((DragEvent) ->
dynamic)?\n    override var ondragend: ((DragEvent) -> dynamic)?\n    override var ondragenter: ((DragEvent) ->
dynamic)?\n    override var ondragexit: ((DragEvent) -> dynamic)?\n    override var ondragleave: ((DragEvent) ->
dynamic)?\n    override var ondragover: ((DragEvent) -> dynamic)?\n    override var ondragstart: ((DragEvent) ->
dynamic)?\n    override var ondrop: ((DragEvent) -> dynamic)?\n    override var ondurationchange: ((Event) ->
dynamic)?\n    override var onemptied: ((Event) -> dynamic)?\n    override var onended: ((Event) -> dynamic)?\n
override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n    override var onfocus: ((FocusEvent) ->
dynamic)?\n    override var oninput: ((InputEvent) -> dynamic)?\n    override var oninvalid: ((Event) -> dynamic)?\n
override var onkeydown: ((KeyboardEvent) -> dynamic)?\n    override var onkeypress: ((KeyboardEvent)
-> dynamic)?\n    override var onkeyup: ((KeyboardEvent) -> dynamic)?\n    override var onload: ((Event) ->
dynamic)?\n    override var onloadeddata: ((Event) -> dynamic)?\n    override var onloadedmetadata: ((Event) ->
dynamic)?\n    override var onloadend: ((Event) -> dynamic)?\n    override var onloadstart: ((ProgressEvent) ->
dynamic)?\n    override var onmousedown: ((MouseEvent) -> dynamic)?\n    override var onmouseenter:
((MouseEvent) -> dynamic)?\n    override var onmouseleave: ((MouseEvent) -> dynamic)?\n    override var
onmousemove: ((MouseEvent) -> dynamic)?\n    override var onmouseout: ((MouseEvent) -> dynamic)?\n
override var onmouseover: ((MouseEvent) -> dynamic)?\n    override var onmouseup: ((MouseEvent) ->
dynamic)?\n    override var onwheel: ((WheelEvent) -> dynamic)?\n    override var onpause: ((Event) ->
dynamic)?\n    override var onplay: ((Event) -> dynamic)?\n    override var onplaying: ((Event) -> dynamic)?\n
override var onprogress: ((ProgressEvent)
-> dynamic)?\n    override var onratechange: ((Event) -> dynamic)?\n    override var onreset: ((Event) ->
dynamic)?\n    override var onresize: ((Event) -> dynamic)?\n    override var onscroll: ((Event) -> dynamic)?\n
override var onseeked: ((Event) -> dynamic)?\n    override var onseeking: ((Event) -> dynamic)?\n    override var

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onselect: ((Event) -> dynamic)?\n  override var onshow: ((Event) -> dynamic)?\n  override var onstalled: ((Event)
-> dynamic)?\n  override var onsubmit: ((Event) -> dynamic)?\n  override var onsuspend: ((Event) ->
dynamic)?\n  override var ontimeoutupdate: ((Event) -> dynamic)?\n  override var ontoggle: ((Event) -> dynamic)?\n
  override var onvolumechange: ((Event) -> dynamic)?\n  override var onwaiting: ((Event) -> dynamic)?\n
override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n  override var onlostpointercapture:
((PointerEvent) -> dynamic)?\n  override var onpointerdown: ((PointerEvent) -> dynamic)?\n  override var
onpointermove: ((PointerEvent) -> dynamic)?\n  override var onpointerup: ((PointerEvent) -> dynamic)?\n
override var onpointercancel: ((PointerEvent) -> dynamic)?\n  override var onpointerover: ((PointerEvent) ->
dynamic)?\n  override var onpointerout: ((PointerEvent) -> dynamic)?\n  override var onpointerenter:
((PointerEvent) -> dynamic)?\n  override var onpointerleave: ((PointerEvent) -> dynamic)?\n  override var
oncopy: ((ClipboardEvent) -> dynamic)?\n  override var oncut: ((ClipboardEvent) -> dynamic)?\n  override var
onpaste: ((ClipboardEvent) -> dynamic)?\n  override var contentEditable: String\n  override val
isContentEditable: Boolean\n  override val style: CSSStyleDeclaration\n  override val children:
HTMLCollection\n  override val firstElementChild: Element?\n  override val lastElementChild: Element?\n
override val childElementCount: Int\n  override val previousElementSibling: Element?\n  override val
nextElementSibling: Element?\n
  override val assignedSlot: HTMLSlotElement?\n  override fun prepend(vararg nodes: dynamic)\n  override fun
append(vararg nodes: dynamic)\n  override fun querySelector(selectors: String): Element?\n  override fun
querySelectorAll(selectors: String): NodeList\n  override fun before(vararg nodes: dynamic)\n  override fun
after(vararg nodes: dynamic)\n  override fun replaceWith(vararg nodes: dynamic)\n  override fun remove()\n
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n  override
fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n  companion object {\n
    val NETWORK_EMPTY: Short\n    val NETWORK_IDLE: Short\n    val NETWORK_LOADING:
Short\n    val NETWORK_NO_SOURCE: Short\n    val HAVE_NOTHING: Short\n    val
HAVE_METADATA: Short\n    val HAVE_CURRENT_DATA: Short\n    val HAVE_FUTURE_DATA:
Short\n    val HAVE_ENOUGH_DATA: Short\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n\n  * Exposes the
JavaScript [Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\n  *^/npublic external open
class Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean =
definedExternally, selected: Boolean = definedExternally) : HTMLOptionElement {\n  override var onabort:
((Event) -> dynamic)?\n  override var onblur: ((FocusEvent) -> dynamic)?\n  override var oncancel: ((Event) ->
dynamic)?\n  override var oncanplay: ((Event) -> dynamic)?\n  override var oncanplaythrough: ((Event) ->
dynamic)?\n  override var onchange: ((Event) -> dynamic)?\n  override var onclick: ((MouseEvent) ->
dynamic)?\n  override var onclose: ((Event) -> dynamic)?\n  override var oncontextmenu: ((MouseEvent) ->
dynamic)?\n  override var oncuechange: ((Event) -> dynamic)?\n  override var ondblclick: ((MouseEvent) ->
dynamic)?\n  override var ondrag:

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((DragEvent) -> dynamic)?\n  override var ondragend: ((DragEvent) -> dynamic)?\n  override var ondragenter:
((DragEvent) -> dynamic)?\n  override var ondragexit: ((DragEvent) -> dynamic)?\n  override var ondragleave:
((DragEvent) -> dynamic)?\n  override var ondragover: ((DragEvent) -> dynamic)?\n  override var ondragstart:
((DragEvent) -> dynamic)?\n  override var ondrop: ((DragEvent) -> dynamic)?\n  override var ondurationchange:
((Event) -> dynamic)?\n  override var onemptied: ((Event) -> dynamic)?\n  override var onended: ((Event) ->
dynamic)?\n  override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n  override var onfocus:
((FocusEvent) -> dynamic)?\n  override var oninput: ((InputEvent) -> dynamic)?\n  override var oninvalid:
((Event) -> dynamic)?\n  override var onkeydown: ((KeyboardEvent) -> dynamic)?\n  override var onkeypress:
((KeyboardEvent) -> dynamic)?\n  override var onkeyup: ((KeyboardEvent) -> dynamic)?\n  override
var onload: ((Event) -> dynamic)?\n  override var onloadeddata: ((Event) -> dynamic)?\n  override var
onloadedmetadata: ((Event) -> dynamic)?\n  override var onloadend: ((Event) -> dynamic)?\n  override var
onloadstart: ((ProgressEvent) -> dynamic)?\n  override var onmousedown: ((MouseEvent) -> dynamic)?\n
override var onmouseenter: ((MouseEvent) -> dynamic)?\n  override var onmouseleave: ((MouseEvent) ->
dynamic)?\n  override var onmousemove: ((MouseEvent) -> dynamic)?\n  override var onmouseout:
((MouseEvent) -> dynamic)?\n  override var onmouseover: ((MouseEvent) -> dynamic)?\n  override var
onmouseup: ((MouseEvent) -> dynamic)?\n  override var onwheel: ((WheelEvent) -> dynamic)?\n  override var
onpause: ((Event) -> dynamic)?\n  override var onplay: ((Event) -> dynamic)?\n  override var onplaying: ((Event)
-> dynamic)?\n  override var onprogress: ((ProgressEvent) -> dynamic)?\n  override var onratechange: ((Event) ->
dynamic)?\n  override var
onreset: ((Event) -> dynamic)?\n  override var onresize: ((Event) -> dynamic)?\n  override var onscroll: ((Event)
-> dynamic)?\n  override var onseeked: ((Event) -> dynamic)?\n  override var onseeking: ((Event) -> dynamic)?\n
override var onselect: ((Event) -> dynamic)?\n  override var onshow: ((Event) -> dynamic)?\n  override var
onstalled: ((Event) -> dynamic)?\n  override var onsubmit: ((Event) -> dynamic)?\n  override var onsuspend:
((Event) -> dynamic)?\n  override var ontimeupdate: ((Event) -> dynamic)?\n  override var ontoggle: ((Event) ->
dynamic)?\n  override var onvolumechange: ((Event) -> dynamic)?\n  override var onwaiting: ((Event) ->
dynamic)?\n  override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n  override var
onlostpointercapture: ((PointerEvent) -> dynamic)?\n  override var onpointerdown: ((PointerEvent) -> dynamic)?\n
override var onpointermove: ((PointerEvent) -> dynamic)?\n  override var onpointerup: ((PointerEvent)
-> dynamic)?\n  override var onpointercancel: ((PointerEvent) -> dynamic)?\n  override var onpointerover:
((PointerEvent) -> dynamic)?\n  override var onpointerout: ((PointerEvent) -> dynamic)?\n  override var
onpointerenter: ((PointerEvent) -> dynamic)?\n  override var onpointerleave: ((PointerEvent) -> dynamic)?\n
override var oncopy: ((ClipboardEvent) -> dynamic)?\n  override var oncut: ((ClipboardEvent) -> dynamic)?\n
override var onpaste: ((ClipboardEvent) -> dynamic)?\n  override var contentEditable: String\n  override val
isContentEditable: Boolean\n  override val style: CSSStyleDeclaration\n  override val children:
HTMLCollection\n  override val firstElementChild: Element?\n  override val lastElementChild: Element?\n
override val childElementCount: Int\n  override val previousElementSibling: Element?\n  override val
nextElementSibling: Element?\n  override val assignedSlot: HTMLSlotElement?\n  override fun prepend(vararg
nodes: dynamic)\n
  override fun append(vararg nodes: dynamic)\n  override fun querySelector(selectors: String): Element?\n
override fun querySelectorAll(selectors: String): NodeList\n  override fun before(vararg nodes: dynamic)\n
override fun after(vararg nodes: dynamic)\n  override fun replaceWith(vararg nodes: dynamic)\n  override fun
remove()\n  override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n
  override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n

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    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n\npublic external interface
UnionElementOrHTMLCollection\n\npublic external interface UnionElementOrRadioNodeList\n\npublic external
interface UnionHTMLOptGroupElementOrHTMLOptionElement\n\npublic external interface
MediaPlayer\n\npublic external interface UnionAudioTrackOrTextTrackOrVideoTrack\n\npublic external
interface UnionElementOrMouseEvent\n\npublic
external interface RenderingContext\n\npublic external interface HTMLOrSVGImageElement :
CanvasImageSource\n\npublic external interface CanvasImageSource : ImageBitmapSource\n\npublic external
interface ImageBitmapSource\n\npublic external interface UnionMessagePortOrWindowProxy\n\npublic external
interface HTMLOrSVGScriptElement\n\n/* please, don't implement this interface!
*\n\n@Suppress(\\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\\")\n\npublic external interface
DocumentReadyState { \n    companion object\n} \n\npublic inline val DocumentReadyState.Companion.LOADING:
DocumentReadyState get() = \\"loading\\".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val
DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() =
\\"interactive\\".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val
DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() =
\\"complete\\".asDynamic().unsafeCast<DocumentReadyState>()\n\n/* please, don't implement
this interface! *\n\n@Suppress(\\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\\")\n\npublic external interface
CanPlayTypeResult { \n    companion object\n} \n\npublic inline val CanPlayTypeResult.Companion.EMPTY:
CanPlayTypeResult get() = \\"\\\".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val
CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() =
\\"maybe\\".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val
CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() =
\\"probably\\".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\\")\n\npublic external interface TextTrackMode
{ \n    companion object\n} \n\npublic inline val TextTrackMode.Companion.DISABLED: TextTrackMode get() =
\\"disabled\\".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.HIDDEN: TextTrackMode get() =
\\"hidden\\".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.SHOWING:
TextTrackMode get() = \\"showing\\".asDynamic().unsafeCast<TextTrackMode>()\n\n/* please, don't implement
this interface! *\n\n@Suppress(\\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\\")\n\npublic external interface
TextTrackKind { \n    companion object\n} \n\npublic inline val TextTrackKind.Companion.SUBTITLES:
TextTrackKind get() = \\"subtitles\\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CAPTIONS: TextTrackKind get() =
\\"captions\\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.DESCRPTIONS: TextTrackKind get() =
\\"descriptions\\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CHAPTERS: TextTrackKind get() =
\\"chapters\\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.METADATA: TextTrackKind get() =
\\"metadata\\".asDynamic().unsafeCast<TextTrackKind>()\n\n/* please, don't implement this interface!

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*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic
external interface SelectionMode {\n  companion object\n}\n\npublic inline val
SelectionMode.Companion.SELECT: SelectionMode get() =
\"select\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.START:
SelectionMode get() = \"start\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val
SelectionMode.Companion.END: SelectionMode get() =
\"end\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.PRESERVE:
SelectionMode get() = \"preserve\".asDynamic().unsafeCast<SelectionMode>()\n\n/* please, don't implement this
interface! */\n*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
CanvasFillRule {\n  companion object\n}\n\npublic inline val CanvasFillRule.Companion.NONZERO:
CanvasFillRule get() = \"nonzero\".asDynamic().unsafeCast<CanvasFillRule>()\n\npublic inline val
CanvasFillRule.Companion.EVENODD: CanvasFillRule get() =
\"evenodd\".asDynamic().unsafeCast<CanvasFillRule>()\n\n/*
please, don't implement this interface! */\n*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
ImageSmoothingQuality {\n  companion object\n}\n\npublic inline val ImageSmoothingQuality.Companion.LOW:
ImageSmoothingQuality get() = \"low\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() =
\"medium\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.HIGH: ImageSmoothingQuality get() =
\"high\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\n/* please, don't implement this interface! */\n*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface CanvasLineCap
{\n  companion object\n}\n\npublic inline val CanvasLineCap.Companion.BUTT: CanvasLineCap get() =
\"butt\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val CanvasLineCap.Companion.ROUND:
CanvasLineCap
get() = \"round\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val
CanvasLineCap.Companion.SQUARE: CanvasLineCap get() =
\"square\".asDynamic().unsafeCast<CanvasLineCap>()\n\n/* please, don't implement this interface! */\n*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface CanvasLineJoin
{\n  companion object\n}\n\npublic inline val CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() =
\"round\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.BEVEL:
CanvasLineJoin get() = \"bevel\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val
CanvasLineJoin.Companion.MITER: CanvasLineJoin get() =
\"miter\".asDynamic().unsafeCast<CanvasLineJoin>()\n\n/* please, don't implement this interface! */\n*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface CanvasTextAlign
{\n  companion object\n}\n\npublic inline val CanvasTextAlign.Companion.START: CanvasTextAlign get() =
\"start\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic
inline val CanvasTextAlign.Companion.END: CanvasTextAlign get() =
\"end\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.LEFT:
CanvasTextAlign get() = \"left\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.RIGHT: CanvasTextAlign get() =
\"right\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() =
\"center\".asDynamic().unsafeCast<CanvasTextAlign>()\n\n/* please, don't implement this interface! */\n*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
CanvasTextBaseline {\n  companion object\n}\n\npublic inline val CanvasTextBaseline.Companion.TOP:
CanvasTextBaseline get() = \"top\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() =

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\"hanging\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic
inline val CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() =
\"middle\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =
\"alphabetic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() =
\"ideographic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() =
\"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface CanvasDirection
{\n  companion object\n}\n\npublic inline val CanvasDirection.Companion.LTR: CanvasDirection get() =
\"ltr\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.RTL:
CanvasDirection get() = \"rtl\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic
inline val CanvasDirection.Companion.INHERIT: CanvasDirection get() =
\"inherit\".asDynamic().unsafeCast<CanvasDirection>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface ScrollRestoration
{\n  companion object\n}\n\npublic inline val ScrollRestoration.Companion.AUTO: ScrollRestoration get() =
\"auto\".asDynamic().unsafeCast<ScrollRestoration>()\n\npublic inline val
ScrollRestoration.Companion.MANUAL: ScrollRestoration get() =
\"manual\".asDynamic().unsafeCast<ScrollRestoration>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface ImageOrientation
{\n  companion object\n}\n\npublic inline val ImageOrientation.Companion.NONE: ImageOrientation get() =
\"none\".asDynamic().unsafeCast<ImageOrientation>()\n\npublic inline val ImageOrientation.Companion.FLIPY:
ImageOrientation get() = \"flipY\".asDynamic().unsafeCast<ImageOrientation>()\n\n/*
please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
PremultiplyAlpha {\n  companion object\n}\n\npublic inline val PremultiplyAlpha.Companion.NONE:
PremultiplyAlpha get() = \"none\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get() =
\"premultiply\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.DEFAULT: PremultiplyAlpha get() =
\"default\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
ColorSpaceConversion {\n  companion object\n}\n\npublic inline val ColorSpaceConversion.Companion.NONE:
ColorSpaceConversion get() = \"none\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\npublic inline val
ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion
get() = \"default\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface ResizeQuality
{\n  companion object\n}\n\npublic inline val ResizeQuality.Companion.PIXELATED: ResizeQuality get() =
\"pixelated\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.LOW:
ResizeQuality get() = \"low\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.MEDIUM: ResizeQuality get() =
\"medium\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.HIGH:
ResizeQuality get() = \"high\".asDynamic().unsafeCast<ResizeQuality>()\n\n/* please, don't implement this
interface! *\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
BinaryType {\n  companion object\n}\n\npublic inline val BinaryType.Companion.BLOB: BinaryType get() =
\"blob\".asDynamic().unsafeCast<BinaryType>()\n\npublic

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inline val BinaryType.Companion.ARRAYBUFFER: BinaryType get() =
    "arraybuffer".asDynamic().unsafeCast<BinaryType>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface WorkerType {\n
companion object{\n}\n\npublic inline val WorkerType.Companion.CLASSIC: WorkerType get() =
    "classic".asDynamic().unsafeCast<WorkerType>()\n\npublic inline val WorkerType.Companion.MODULE:
WorkerType get() = "module".asDynamic().unsafeCast<WorkerType>()\n\n/* please, don't implement this
interface! *\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
ShadowRootMode {\n    companion object{\n}\n\npublic inline val ShadowRootMode.Companion.OPEN:
ShadowRootMode get() = "open".asDynamic().unsafeCast<ShadowRootMode>()\n\npublic inline val
ShadowRootMode.Companion.CLOSED: ShadowRootMode get() =
    "closed".asDynamic().unsafeCast<ShadowRootMode>()\n\n/* please, don't implement this
interface! *\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
ScrollBehavior {\n    companion object{\n}\n\npublic inline val ScrollBehavior.Companion.AUTO: ScrollBehavior
get() = "auto".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val
ScrollBehavior.Companion.INSTANT: ScrollBehavior get() =
    "instant".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val ScrollBehavior.Companion.SMOOTH:
ScrollBehavior get() = "smooth".asDynamic().unsafeCast<ScrollBehavior>()\n\n/* please, don't implement this
interface! *\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
ScrollLogicalPosition {\n    companion object{\n}\n\npublic inline val ScrollLogicalPosition.Companion.START:
ScrollLogicalPosition get() = "start".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() =
    "center".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic
inline val ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() =
    "end".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() =
    "nearest".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface CSSBoxType {\n
companion object{\n}\n\npublic inline val CSSBoxType.Companion.MARGIN: CSSBoxType get() =
    "margin".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.BORDER:
CSSBoxType get() = "border".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.PADDING: CSSBoxType get() =
    "padding".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.CONTENT:
CSSBoxType get() = "content".asDynamic().unsafeCast<CSSBoxType>()"}\n\n/*\n\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language
contributors.\n\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.fetch\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport
org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n\n * Exposes the JavaScript
[Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\n\n *\n\npublic external open class
Headers(init: dynamic = definedExternally) {\n
    fun append(name: String, value: String)\n    fun delete(name: String)\n    fun get(name: String): String?\n    fun
has(name: String): Boolean\n    fun set(name: String, value: String)\n}\n\n/**\n\n * Exposes the JavaScript
[Body](https://developer.mozilla.org/en/docs/Web/API/Body) to Kotlin\n\n *\n\npublic external interface Body {\n

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val bodyUsed: Boolean\n fun arrayBuffer(): Promise<ArrayBuffer>\n fun blob(): Promise<Blob>\n fun
formData(): Promise<FormData>\n fun json(): Promise<Any?>\n fun text(): Promise<String>\n}\n\n/**\n *
Exposes the JavaScript [Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin\n *\n\npublic
external open class Request(input: dynamic, init: RequestInit = definedExternally) : Body {\n open val method:
String\n open val url: String\n open val headers: Headers\n open val type: RequestType\n open val
destination: RequestDestination\n open val referrer: String\n open val referrerPolicy: dynamic\n open
val mode: RequestMode\n open val credentials: RequestCredentials\n open val cache: RequestCache\n open
val redirect: RequestRedirect\n open val integrity: String\n open val keepalive: Boolean\n override val
bodyUsed: Boolean\n fun clone(): Request\n override fun arrayBuffer(): Promise<ArrayBuffer>\n override fun
blob(): Promise<Blob>\n override fun formData(): Promise<FormData>\n override fun json():
Promise<Any?>\n override fun text(): Promise<String>\n}\n\n\npublic external interface RequestInit {\n var
method: String?\n get() = definedExternally\n set(value) = definedExternally\n var headers: dynamic\n
get() = definedExternally\n set(value) = definedExternally\n var body: dynamic\n get() =
definedExternally\n set(value) = definedExternally\n var referrer: String?\n get() = definedExternally\n
set(value) = definedExternally\n var referrerPolicy: dynamic\n get() = definedExternally\n
set(value) = definedExternally\n var mode: RequestMode?\n get() = definedExternally\n set(value) =
definedExternally\n var credentials: RequestCredentials?\n get() = definedExternally\n set(value) =
definedExternally\n var cache: RequestCache?\n get() = definedExternally\n set(value) =
definedExternally\n var redirect: RequestRedirect?\n get() = definedExternally\n set(value) =
definedExternally\n var integrity: String?\n get() = definedExternally\n set(value) = definedExternally\n
var keepalive: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var window:
Any?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n\n@kotlin.internal.InlineOnly\n\npublic inline fun RequestInit(method: String? = undefined,
headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy: dynamic =
undefined,
mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache: RequestCache? =
undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive: Boolean? = undefined,
window: Any? = undefined): RequestInit {\n val o = js("{}")\n o["method"] = method\n o["headers"] =
headers\n o["body"] = body\n o["referrer"] = referrer\n o["referrerPolicy"] = referrerPolicy\n
o["mode"] = mode\n o["credentials"] = credentials\n o["cache"] = cache\n o["redirect"] = redirect\n
o["integrity"] = integrity\n o["keepalive"] = keepalive\n o["window"] = window\n return o\n}\n\n\n/**\n *
Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin\n *\n\npublic
external open class Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally) : Body
{\n open val type: ResponseType\n open val url: String\n open val redirected:
Boolean\n open val status: Short\n open val ok: Boolean\n open val statusText: String\n open val headers:
Headers\n open val body: dynamic\n open val trailer: Promise<Headers>\n override val bodyUsed: Boolean\n
fun clone(): Response\n override fun arrayBuffer(): Promise<ArrayBuffer>\n override fun blob():
Promise<Blob>\n override fun formData(): Promise<FormData>\n override fun json(): Promise<Any?>\n
override fun text(): Promise<String>\n\n companion object {\n fun error(): Response\n fun redirect(url:
String, status: Short = definedExternally): Response\n }\n}\n\n\npublic external interface ResponseInit {\n var
status: Short? /* = 200 */\n get() = definedExternally\n set(value) = definedExternally\n var statusText:
String? /* = "OK" */\n get() = definedExternally\n set(value) = definedExternally\n var headers:
dynamic\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n\n@kotlin.internal.InlineOnly\n\npublic
inline fun ResponseInit(status: Short? = 200, statusText: String? = "OK", headers: dynamic = undefined):
ResponseInit {\n val o = js("{}")\n o["status"] = status\n o["statusText"] = statusText\n o["headers"]
= headers\n return o\n}\n\n\n/* please, don't implement this interface!\n *\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface RequestType {\n

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companion object {
    public inline val RequestType.Companion.EMPTY: RequestType get() =
    "\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.AUDIO: RequestType
get() = \"audio\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.FONT:
RequestType get() = \"font\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.IMAGE: RequestType get() =
\"image\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.SCRIPT:
RequestType
get() = \"script\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.STYLE:
RequestType get() = \"style\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.TRACK: RequestType get() =
\"track\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.VIDEO:
RequestType get() = \"video\".asDynamic().unsafeCast<RequestType>()\n\n/* please, don't implement this
interface! */\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
RequestDestination {
    companion object {
        public inline val RequestDestination.Companion.EMPTY:
RequestDestination get() = \"\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.DOCUMENT: RequestDestination get() =
\"document\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.EMBED: RequestDestination get() =
\"embed\".asDynamic().unsafeCast<RequestDestination>()\n\npublic
inline val RequestDestination.Companion.FONT: RequestDestination get() =
\"font\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.IMAGE: RequestDestination get() =
\"image\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.MANIFEST: RequestDestination get() =
\"manifest\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.MEDIA: RequestDestination get() =
\"media\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.OBJECT: RequestDestination get() =
\"object\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.REPORT: RequestDestination get() =
\"report\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SCRIPT: RequestDestination get() =
\"script\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline
val RequestDestination.Companion.SERVICEWORKER: RequestDestination get() =
\"serviceworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SHAREDWORKER: RequestDestination get() =
\"sharedworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.STYLE: RequestDestination get() =
\"style\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.WORKER: RequestDestination get() =
\"worker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.XSLT: RequestDestination get() =
\"xslt\".asDynamic().unsafeCast<RequestDestination>()\n\n\n/* please, don't implement this interface!
*/\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface RequestMode {
    companion object {
        public inline val RequestMode.Companion.NAVIGATE: RequestMode get() =
\"navigate\".asDynamic().unsafeCast<RequestMode>()\n\npublic
inline val RequestMode.Companion.SAME_ORIGIN: RequestMode get() = \"same-
origin\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.NO_CORS:

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RequestMode get() = \"no-cors\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.CORS: RequestMode get() = \"cors\".asDynamic().unsafeCast<RequestMode>()\n\n/*
please, don't implement this interface!
*/\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
RequestCredentials {\n    companion object\n}\n\npublic inline val RequestCredentials.Companion.OMIT:
RequestCredentials get() = \"omit\".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = \"same-
origin\".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.INCLUDE: RequestCredentials get() =
\"include\".asDynamic().unsafeCast<RequestCredentials>()\n\n/* please, don't implement
this interface! */\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
RequestCache {\n    companion object\n}\n\npublic inline val RequestCache.Companion.DEFAULT: RequestCache
get() = \"default\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.NO_STORE: RequestCache get() = \"no-
store\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.RELOAD:
RequestCache get() = \"reload\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.NO_CACHE: RequestCache get() = \"no-
cache\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.FORCE_CACHE: RequestCache get() = \"force-
cache\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = \"only-if-
cached\".asDynamic().unsafeCast<RequestCache>()\n\n/* please, don't implement this interface!
*/\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic
external interface RequestRedirect {\n    companion object\n}\n\npublic inline val
RequestRedirect.Companion.FOLLOW: RequestRedirect get() =
\"follow\".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.ERROR:
RequestRedirect get() = \"error\".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val
RequestRedirect.Companion.MANUAL: RequestRedirect get() =
\"manual\".asDynamic().unsafeCast<RequestRedirect>()\n\n/* please, don't implement this interface!
*/\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface ResponseType
{\n    companion object\n}\n\npublic inline val ResponseType.Companion.BASIC: ResponseType get() =
\"basic\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.CORS:
ResponseType get() = \"cors\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.DEFAULT: ResponseType get() =
\"default\".asDynamic().unsafeCast<ResponseType>()\n\npublic
inline val ResponseType.Companion.ERROR: ResponseType get() =
\"error\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.OPAQUE:
ResponseType get() = \"opaque\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() =
\"opaqueredirect\".asDynamic().unsafeCast<ResponseType>()\", \"/*\n * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediacapture\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediasource.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport

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org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\n\n\npublic external open
class MediaStream() : EventTarget, MediaProvider {\n  constructor(stream: MediaStream)\n  constructor(tracks:
Array<MediaStreamTrack>)\n  open val id: String\n  open val active: Boolean\n  var onaddtrack:
((MediaStreamTrackEvent) -> dynamic)?\n  var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?\n  fun
getAudioTracks(): Array<MediaStreamTrack>\n  fun getVideoTracks(): Array<MediaStreamTrack>\n  fun
getTracks(): Array<MediaStreamTrack>\n  fun getTrackById(trackId: String): MediaStreamTrack?\n  fun
addTrack(track: MediaStreamTrack)\n  fun removeTrack(track:
MediaStreamTrack)\n  fun clone(): MediaStream\n}\n\n\n/**\n * Exposes the JavaScript
[MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin\n\n\npublic
external abstract class MediaStreamTrack : EventTarget {\n  open val kind: String\n  open val id: String\n  open
val label: String\n  open var enabled: Boolean\n  open val muted: Boolean\n  open var onmute: ((Event) ->
dynamic)?\n  open var onunmute: ((Event) -> dynamic)?\n  open val readyState: MediaStreamTrackState\n
open var onended: ((Event) -> dynamic)?\n  open var onoverconstrained: ((Event) -> dynamic)?\n  fun clone():
MediaStreamTrack\n  fun stop()\n  fun getCapabilities(): MediaTrackCapabilities\n  fun getConstraints():
MediaTrackConstraints\n  fun getSettings(): MediaTrackSettings\n  fun applyConstraints(constraints:
MediaTrackConstraints = definedExternally): Promise<Unit>\n}\n\n\n/**\n * Exposes the JavaScript
[MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstrain
ts)
to Kotlin\n\n\npublic external interface MediaTrackSupportedConstraints {\n  var width: Boolean? /* = true */\n
  get() = definedExternally\n  set(value) = definedExternally\n  var height: Boolean? /* = true */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var aspectRatio: Boolean? /* = true */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var frameRate: Boolean? /* = true */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var facingMode: Boolean? /* = true */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var resizeMode: Boolean? /* = true */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var volume: Boolean? /* = true */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var sampleRate: Boolean? /*
= true */\n  get() = definedExternally\n  set(value) = definedExternally\n  var sampleSize: Boolean? /* =
true */\n  get() = definedExternally\n  set(value) = definedExternally\n  var echoCancellation: Boolean? /*
= true */\n  get() = definedExternally\n  set(value) = definedExternally\n  var autoGainControl: Boolean? /*
= true */\n  get() = definedExternally\n  set(value) = definedExternally\n  var noiseSuppression: Boolean?
/* = true */\n  get() = definedExternally\n  set(value) = definedExternally\n  var latency: Boolean? /* = true
*/\n  get() = definedExternally\n  set(value) = definedExternally\n  var channelCount: Boolean? /* = true
*/\n  get() = definedExternally\n  set(value) = definedExternally\n  var deviceId: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var groupId: Boolean? /* = true */\n  get() =
definedExternally\n
  set(value) = definedExternally\n}\n\n\n@kotlin.internal.InlineOnly\npublic inline fun
MediaTrackSupportedConstraints(width: Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true,
frameRate: Boolean? = true, facingMode: Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true,
sampleRate: Boolean? = true, sampleSize: Boolean? = true, echoCancellation: Boolean? = true, autoGainControl:
Boolean? = true, noiseSuppression: Boolean? = true, latency: Boolean? = true, channelCount: Boolean? = true,
deviceId: Boolean? = true, groupId: Boolean? = true): MediaTrackSupportedConstraints {\n  val o = js("{}")\n
o["width"] = width\n  o["height"] = height\n  o["aspectRatio"] = aspectRatio\n  o["frameRate"] =
frameRate\n  o["facingMode"] = facingMode\n  o["resizeMode"] = resizeMode\n  o["volume"] = volume\n
o["sampleRate"] = sampleRate\n  o["sampleSize"] = sampleSize\n  o["echoCancellation"] =
echoCancellation\n  o["autoGainControl"]
= autoGainControl\n  o["noiseSuppression"] = noiseSuppression\n  o["latency"] = latency\n
o["channelCount"] = channelCount\n  o["deviceId"] = deviceId\n  o["groupId"] = groupId\n  return

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o\n}\n\npublic external interface MediaTrackCapabilities {\n  var width: ULongRange?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var height: ULongRange?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var aspectRatio: DoubleRange?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var frameRate: DoubleRange?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var facingMode: Array<String>?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var resizeMode: Array<String>?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var volume: DoubleRange?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var sampleRate: ULongRange?\n    get() = definedExternally\n
set(value) = definedExternally\n  var sampleSize: ULongRange?\n    get() = definedExternally\n    set(value)
= definedExternally\n  var echoCancellation: Array<Boolean>?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var autoGainControl: Array<Boolean>?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var noiseSuppression: Array<Boolean>?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var latency: DoubleRange?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var channelCount: ULongRange?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var deviceId: String?\n    get() = definedExternally\n    set(value) = definedExternally\n
var groupId: String?\n    get() = definedExternally\n    set(value)
= definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackCapabilities(width:
ULongRange? = undefined, height: ULongRange? = undefined, aspectRatio: DoubleRange? = undefined,
frameRate: DoubleRange? = undefined, facingMode: Array<String>? = undefined, resizeMode: Array<String>? =
undefined, volume: DoubleRange? = undefined, sampleRate: ULongRange? = undefined, sampleSize:
ULongRange? = undefined, echoCancellation: Array<Boolean>? = undefined, autoGainControl: Array<Boolean>?
= undefined, noiseSuppression: Array<Boolean>? = undefined, latency: DoubleRange? = undefined, channelCount:
ULongRange? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackCapabilities
{\n  val o = js("{}")\n  o["width"] = width\n  o["height"] = height\n  o["aspectRatio"] = aspectRatio\n
o["frameRate"] = frameRate\n  o["facingMode"] = facingMode\n  o["resizeMode"] = resizeMode\n
o["volume"] = volume\n  o["sampleRate"]
= sampleRate\n  o["sampleSize"] = sampleSize\n  o["echoCancellation"] = echoCancellation\n
o["autoGainControl"] = autoGainControl\n  o["noiseSuppression"] = noiseSuppression\n  o["latency"] =
latency\n  o["channelCount"] = channelCount\n  o["deviceId"] = deviceId\n  o["groupId"] = groupId\n
return o}\n}\n\n/**\n * Exposes the JavaScript
[MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin\n
*\n\npublic external interface MediaTrackConstraints : MediaTrackConstraintSet {\n  var advanced:
Array<MediaTrackConstraintSet>?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackConstraints(advanced:
Array<MediaTrackConstraintSet>? = undefined, width: dynamic = undefined, height: dynamic = undefined,
aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined,
resizeMode: dynamic
= undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined,
echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic =
undefined, latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined,
groupId: dynamic = undefined): MediaTrackConstraints {\n  val o = js("{}")\n  o["advanced"] = advanced\n
o["width"] = width\n  o["height"] = height\n  o["aspectRatio"] = aspectRatio\n  o["frameRate"] =
frameRate\n  o["facingMode"] = facingMode\n  o["resizeMode"] = resizeMode\n  o["volume"] = volume\n
o["sampleRate"] = sampleRate\n  o["sampleSize"] = sampleSize\n  o["echoCancellation"] =
echoCancellation\n  o["autoGainControl"] = autoGainControl\n  o["noiseSuppression"] = noiseSuppression\n
o["latency"] = latency\n  o["channelCount"] = channelCount\n  o["deviceId"] = deviceId\n  o["groupId"] =
groupId\n

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return o\n}\n\npublic external interface MediaTrackConstraintSet {\n  var width: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n  var height: dynamic\n    get() = definedExternally\n
set(value) = definedExternally\n  var aspectRatio: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n  var frameRate: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n  var facingMode: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n  var resizeMode: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n  var volume: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n
var sampleRate: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n  var sampleSize:
dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n
  var echoCancellation: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n  var
autoGainControl: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n  var
noiseSuppression: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n  var latency:
dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n  var channelCount: dynamic\n
get() = definedExternally\n    set(value) = definedExternally\n  var deviceId: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n  var groupId: dynamic\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
MediaTrackConstraintSet(width: dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic =
undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined,
volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined,
echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic =
undefined, latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined,
groupId: dynamic = undefined): MediaTrackConstraintSet {\n  val o = js("{}")\n  o["width"] = width\n
o["height"] = height\n  o["aspectRatio"] = aspectRatio\n  o["frameRate"] = frameRate\n  o["facingMode"]
= facingMode\n  o["resizeMode"] = resizeMode\n  o["volume"] = volume\n  o["sampleRate"] =
sampleRate\n  o["sampleSize"] = sampleSize\n  o["echoCancellation"] = echoCancellation\n
o["autoGainControl"] = autoGainControl\n  o["noiseSuppression"] = noiseSuppression\n  o["latency"] =
latency\n  o["channelCount"] = channelCount\n  o["deviceId"] = deviceId\n  o["groupId"] = groupId\n
return o\n}\n\n/**\n * Exposes

```

the JavaScript [MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to

```

Kotlin\n *\npublic external interface MediaTrackSettings {\n  var width: Int?\n    get() = definedExternally\n
set(value) = definedExternally\n  var height: Int?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var aspectRatio: Double?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var frameRate: Double?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var facingMode: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var resizeMode: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var volume: Double?\n    get() = definedExternally\n    set(value) = definedExternally\n
var sampleRate: Int?\n    get() = definedExternally\n    set(value) = definedExternally\n  var sampleSize:
Int?\n    get() = definedExternally\n    set(value) = definedExternally\n  var echoCancellation: Boolean?\n
get() = definedExternally\n    set(value) = definedExternally\n  var autoGainControl: Boolean?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var noiseSuppression: Boolean?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var latency: Double?\n    get() = definedExternally\n
set(value) = definedExternally\n  var channelCount: Int?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var deviceId: String?\n    get() = definedExternally\n    set(value) = definedExternally\n
var groupId: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackSettings(width: Int? =
undefined, height: Int? = undefined, aspectRatio: Double? = undefined, frameRate: Double? = undefined,
facingMode: String? = undefined, resizeMode: String? = undefined, volume: Double? = undefined, sampleRate:
Int? = undefined, sampleSize: Int? = undefined, echoCancellation: Boolean? = undefined, autoGainControl:

```

```

Boolean? = undefined, noiseSuppression: Boolean? = undefined, latency: Double? = undefined, channelCount: Int?
= undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings {
    val o = js("{}")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

/** Exposes the JavaScript [MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin
 *
 * \npublic external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) :
 * Event {
 *     \n open val track: MediaStreamTrack
 *     \n companion object {
 *         \n val NONE: Short
 *         \n val CAPTURING_PHASE: Short
 *         \n val AT_TARGET: Short
 *         \n val BUBBLING_PHASE: Short
 *     }
 *     \n \npublic external interface MediaStreamTrackEventInit : EventInit {
 *         \n var track: MediaStreamTrack?
 *         \n get() = definedExternally
 *         \n set(value) = definedExternally
 *     }
 *     \n @kotlin.internal.InlineOnly
 *     \npublic inline fun MediaStreamTrackEventInit(track: MediaStreamTrack?, bubbles: Boolean? = false, cancelable: Boolean? = false,
 * composed: Boolean? = false): MediaStreamTrackEventInit {
 *         \n val o = js("{}")
 *         \n o["track"] = track
 *         \n o["bubbles"] = bubbles
 *         \n o["cancelable"] = cancelable
 *         \n o["composed"] = composed
 *         \n return o
 *     }
 *     \n \npublic external open class OverconstrainedErrorEvent(type: String, eventInitDict: OverconstrainedErrorEventInit) : Event {
 *     \n open val error:
 * dynamic
 *     \n companion object {
 *         \n val NONE: Short
 *         \n val CAPTURING_PHASE: Short
 *         \n val AT_TARGET: Short
 *         \n val BUBBLING_PHASE: Short
 *     }
 *     \n \npublic external interface OverconstrainedErrorEventInit : EventInit {
 *         \n var error: dynamic /* = null */
 *         \n get() = definedExternally
 *         \n set(value) = definedExternally
 *     }
 *     \n @kotlin.internal.InlineOnly
 *     \npublic inline fun OverconstrainedErrorEventInit(error: dynamic = null, bubbles: Boolean? = false, cancelable: Boolean? = false,
 * composed: Boolean? = false): OverconstrainedErrorEventInit {
 *         \n val o = js("{}")
 *         \n o["error"] = error
 *         \n o["bubbles"] = bubbles
 *         \n o["cancelable"] = cancelable
 *         \n o["composed"] = composed
 *         \n return o
 *     }
 *     \n \n/** Exposes the JavaScript [MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices)
 * to Kotlin
 * \n * \npublic external abstract class MediaDevices : EventTarget {
 *     \n open var ondevicechange: ((Event)
 * -> dynamic)?
 *     \n fun enumerateDevices(): Promise<Array<MediaDeviceInfo>>
 *     \n fun getSupportedConstraints():
 * MediaTrackSupportedConstraints
 *     \n fun getUserMedia(constraints: MediaStreamConstraints = definedExternally):
 * Promise<MediaStream>
 * }
 * \n \n/** Exposes the JavaScript [MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin
 * \n * \npublic
 * external abstract class MediaDeviceInfo {
 *     \n open val deviceId: String
 *     \n open val kind: MediaDeviceKind
 *     \n open val label: String
 *     \n open val groupId: String
 *     \n fun toJSON(): dynamic
 * }
 * \n \npublic external abstract class InputDeviceInfo : MediaDeviceInfo {
 *     \n fun getCapabilities(): MediaTrackCapabilities
 * }
 * \n \n/** Exposes the
 * JavaScript [MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints)
 * to Kotlin
 * \n * \npublic external interface MediaStreamConstraints {
 *     \n var video: dynamic /* = false */
 *     \n get() =
 * definedExternally
 *     \n set(value) = definedExternally
 *     \n var audio: dynamic /* = false */
 *     \n get() =
 * definedExternally
 *     \n set(value) = definedExternally
 * }
 * \n @kotlin.internal.InlineOnly
 * \npublic inline fun MediaStreamConstraints(video: dynamic = false, audio: dynamic = false): MediaStreamConstraints {
 *     \n val o =
 * js("{}")
 *     \n o["video"] = video
 *     \n o["audio"] = audio
 *     \n return o
 * }
 * \n \npublic external interface ConstrainablePattern {
 *     \n var onoverconstrained: ((Event) -> dynamic)?
 *     \n get() = definedExternally
 *     \n set(value) = definedExternally
 *     \n fun getCapabilities(): Capabilities
 *     \n fun getConstraints(): Constraints
 *     \n fun
 * getSettings(): Settings
 *     \n fun applyConstraints(constraints: Constraints = definedExternally):
 * Promise<Unit>
 * }
 * \n \n/** Exposes the JavaScript [DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange)

```

```

to Kotlin\n */\npublic external interface DoubleRange {\n    var max: Double?\n        get() = definedExternally\n    set(value) = definedExternally\n    var min: Double?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun DoubleRange(max: Double? = undefined, min: Double? = undefined): DoubleRange {\n    val o = js("{}")\n    o["max"] = max\n    o["min"] = min\n    return o\n}\n\npublic external interface ConstrainDoubleRange : DoubleRange {\n    var exact: Double?\n        get() = definedExternally\n        set(value) = definedExternally\n    var ideal: Double?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDoubleRange(exact: Double? = undefined, ideal: Double? = undefined, max: Double? = undefined, min: Double? = undefined): ConstrainDoubleRange {\n    val o = js("{}")\n    o["exact"] = exact\n    o["ideal"] = ideal\n    o["max"] = max\n    o["min"] = min\n    return o\n}\n\npublic external interface ULongRange {\n    var max: Int?\n        get() = definedExternally\n        set(value) = definedExternally\n    var min: Int?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange(max: Int? = undefined, min: Int? = undefined): ULongRange {\n    val o = js("{}")\n    o["max"] = max\n    o["min"] = min\n    return o\n}\n\npublic external interface ConstrainULongRange : ULongRange {\n    var exact: Int?\n        get() = definedExternally\n        set(value) = definedExternally\n    var ideal: Int?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainULongRange(exact: Int? = undefined, ideal: Int? = undefined, max: Int? = undefined, min: Int? = undefined): ConstrainULongRange {\n    val o = js("{}")\n    o["exact"] = exact\n    o["ideal"] = ideal\n    o["max"] = max\n    o["min"] = min\n    return o\n}\n\n/**\n * Exposes the JavaScript
[ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to
Kotlin\n */\npublic external interface ConstrainBooleanParameters {\n    var exact: Boolean?\n        get() = definedExternally\n        set(value) = definedExternally\n    var ideal: Boolean?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ConstrainBooleanParameters(exact: Boolean? = undefined, ideal: Boolean? = undefined):
ConstrainBooleanParameters {\n    val o = js("{}")\n    o["exact"] = exact\n    o["ideal"] = ideal\n    return
o\n}\n\n/**\n * Exposes the JavaScript
[ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters)
to Kotlin\n */\npublic external interface ConstrainDOMStringParameters
{\n    var exact: dynamic\n        get() = definedExternally\n        set(value) = definedExternally\n    var ideal:
dynamic\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDOMStringParameters(exact:
dynamic = undefined, ideal: dynamic = undefined): ConstrainDOMStringParameters {\n    val o = js("{}")\n
o["exact"] = exact\n    o["ideal"] = ideal\n    return o\n}\n\npublic external interface
Capabilities\n\n@kotlin.internal.InlineOnly\npublic inline fun Capabilities(): Capabilities {\n    val o = js("{}")\n
return o\n}\n\npublic external interface Settings\n\n@kotlin.internal.InlineOnly\npublic inline fun Settings():
Settings {\n    val o = js("{}")\n    return o\n}\n\npublic external interface
ConstraintSet\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstraintSet(): ConstraintSet {\n    val o =
js("{}")\n    return o\n}\n\npublic external
interface Constraints : ConstraintSet {\n    var advanced: Array<ConstraintSet>?\n        get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun Constraints(advanced:
Array<ConstraintSet>? = undefined): Constraints {\n    val o = js("{}")\n    o["advanced"] = advanced\n
return o\n}\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
MediaStreamTrackState {\n    companion object\n}\n\npublic inline val MediaStreamTrackState.Companion.LIVE:
MediaStreamTrackState get() = "live".asDynamic().unsafeCast<MediaStreamTrackState>()\n\npublic inline val
MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() =
"ended".asDynamic().unsafeCast<MediaStreamTrackState>()\n\n/* please, don't implement this interface!

```

```

*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
VideoFacingModeEnum {\n  companion object\n}\n\npublic
inline val VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() =
"user".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.ENVIRONMENT: VideoFacingModeEnum get() =
"environment".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() =
"left".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() =
"right".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\n/* please, don't implement this interface!
*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
VideoResizeModeEnum {\n  companion object\n}\n\npublic inline val
VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() =
"none".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\npublic inline val
VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = "crop-and-
scale".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\n/*
please, don't implement this interface!
*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
MediaDeviceKind {\n  companion object\n}\n\npublic inline val MediaDeviceKind.Companion.AUDIOINPUT:
MediaDeviceKind get() = "audioinput".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val
MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() =
"audiooutput".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val
MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() =
"videoinput".asDynamic().unsafeCast<MediaDeviceKind>()
}

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Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediasource\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport
org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport
org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport
org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external open class MediaSource : EventTarget, MediaProvider
{\n  open val sourceBuffers: SourceBufferList\n  open val activeSourceBuffers: SourceBufferList\n  open val
readyState: ReadyState\n  var duration: Double\n  var onsourceopen: ((Event) -> dynamic)?\n  var
onsourceended: ((Event) -> dynamic)?\n  var onsourceclose: ((Event) -> dynamic)?\n  fun addSourceBuffer(type:
String): SourceBuffer\n  fun removeSourceBuffer(sourceBuffer: SourceBuffer)\n
  fun endOfStream(error: EndOfStreamError = definedExternally)\n  fun setLiveSeekableRange(start: Double,
end: Double)\n  fun clearLiveSeekableRange()\n\n  companion object {\n    fun isTypeSupported(type: String):
Boolean\n  }\n}\n\npublic external abstract class SourceBuffer : EventTarget {\n  open var mode: AppendMode\n
open val updating: Boolean\n  open val buffered: TimeRanges\n  open var timestampOffset: Double\n  open val
audioTracks: AudioTrackList\n  open val videoTracks: VideoTrackList\n  open val textTracks: TextTrackList\n
open var appendWindowStart: Double\n  open var appendWindowEnd: Double\n  open var onupdatestart:
((Event) -> dynamic)?\n  open var onupdate: ((Event) -> dynamic)?\n  open var onupdateend: ((Event) ->
dynamic)?\n  open var onerror: ((Event) -> dynamic)?\n  open var onabort: ((Event) -> dynamic)?\n  fun
appendBuffer(data: dynamic)\n  fun abort()\n  fun remove(start: Double, end: Double)\n}\n\npublic
external abstract class SourceBufferList : EventTarget {\n  open val length: Int\n  open var onaddsourcebuffer:
((Event) -> dynamic)?\n  open var onremovesourcebuffer: ((Event) ->

```

```

dynamic)?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SourceBufferList.get(index: Int):
SourceBuffer? = asDynamic()[index]\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface ReadyState {\n
companion object\n}\n\npublic inline val ReadyState.Companion.CLOSED: ReadyState get() =
"closed".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val ReadyState.Companion.OPEN: ReadyState
get() = "open".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val ReadyState.Companion.ENDED:
ReadyState get() = "ended".asDynamic().unsafeCast<ReadyState>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
EndOfStreamError {\n    companion object\n}\n\npublic
inline val EndOfStreamError.Companion.NETWORK: EndOfStreamError get() =
"network".asDynamic().unsafeCast<EndOfStreamError>()\n\npublic inline val
EndOfStreamError.Companion.DECODE: EndOfStreamError get() =
"decode".asDynamic().unsafeCast<EndOfStreamError>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface AppendMode {\n
companion object\n}\n\npublic inline val AppendMode.Companion.SEGMENTS: AppendMode get() =
"segments".asDynamic().unsafeCast<AppendMode>()\n\npublic inline val
AppendMode.Companion.SEQUENCE: AppendMode get() =
"sequence".asDynamic().unsafeCast<AppendMode>())"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n//
See github.com/kotlin/dukat for details\n\npackage
org.w3c.dom.pointerevents\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport
org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport org.w3c.dom.parsing.*\nimport
org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport
org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic
external interface PointerEventInit : MouseEventInit {\n    var pointerId: Int? /* = 0 */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var width: Double? /* = 1.0 */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var height: Double? /* = 1.0 */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var pressure: Float? /* =
Of */\n        get() = definedExternally\n        set(value) = definedExternally\n    var tangentialPressure: Float? /* = 0f
*/\n        get() = definedExternally\n        set(value) = definedExternally\n    var tiltX: Int? /* = 0 */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var tiltY: Int? /* = 0 */\n        get() = definedExternally\n
set(value) = definedExternally\n    var twist: Int? /* = 0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var pointerType: String? /* = "" */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var isPrimary: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun PointerEventInit(pointerId: Int? = 0, width:
Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f, tangentialPressure: Float? = 0f, tiltX: Int? = 0, tiltY:
Int? = 0, twist: Int? = 0,
pointerType: String? = "", isPrimary: Boolean? = false, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0,
clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null,
ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false,
modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false,
modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false,
modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false,
modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): PointerEventInit {\n    val o = js("{}")\n

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o["pointerId"] = pointerId\n o["width"] = width\n o["height"] = height\n o["pressure"] = pressure\n
o["tangentialPressure"]
= tangentialPressure\n o["tiltX"] = tiltX\n o["tiltY"] = tiltY\n o["twist"] = twist\n o["pointerType"] =
pointerType\n o["isPrimary"] = isPrimary\n o["screenX"] = screenX\n o["screenY"] = screenY\n
o["clientX"] = clientX\n o["clientY"] = clientY\n o["button"] = button\n o["buttons"] = buttons\n
o["relatedTarget"] = relatedTarget\n o["region"] = region\n o["ctrlKey"] = ctrlKey\n o["shiftKey"] =
shiftKey\n o["altKey"] = altKey\n o["metaKey"] = metaKey\n o["modifierAltGraph"] =
modifierAltGraph\n o["modifierCapsLock"] = modifierCapsLock\n o["modifierFn"] = modifierFn\n
o["modifierFnLock"] = modifierFnLock\n o["modifierHyper"] = modifierHyper\n o["modifierNumLock"] =
modifierNumLock\n o["modifierScrollLock"] = modifierScrollLock\n o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n o["modifierSymbolLock"] = modifierSymbolLock\n
o["view"] = view\n o["detail"] = detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n
o["composed"] = composed\n return o\n}\n\n**\n * Exposes the JavaScript
[PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\n */\npublic external open
class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {\n open val
pointerId: Int\n open val width: Double\n open val height: Double\n open val pressure: Float\n open val
tangentialPressure: Float\n open val tiltX: Int\n open val tiltY: Int\n open val twist: Int\n open val
pointerType: String\n open val isPrimary: Boolean\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}"/**\n
* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS
FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage
org.w3c.dom.svg\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport
org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.mediasource.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n**\n * Exposes the JavaScript
[SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n */\npublic external
abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance
{\n open val dataset: DOMStringMap\n open val ownerSVGElement: SVGSVGElement?\n open val
viewportElement: SVGElement?\n open var tabIndex: Int\n fun focus()\n fun blur()\n\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
SVGBoundingBoxOptions {\n var fill: Boolean? /* = true */\n get() = definedExternally\n set(value) =
definedExternally\n var stroke: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n var markers: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n var clipped: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun SVGBoundingBoxOptions(fill: Boolean? =
true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false): SVGBoundingBoxOptions {\n
val o = js("{}")\n o["fill"] = fill\n o["stroke"] = stroke\n o["markers"] = markers\n o["clipped"] =

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clipped\n return o\n}\n\n/**\n * Exposes the JavaScript
[SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\n
*\npublic external abstract
class SVGGraphicsElement : SVGElement, SVGTests {\n open val transform: SVGAnimatedTransformList\n
fun getBBox(options: SVGBoundingBoxOptions = definedExternally): DOMRect\n fun getCTM():
DOMMatrix?\n fun getScreenCTM(): DOMMatrix?\n\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin\n
*\npublic external abstract class SVGGeometryElement : SVGGraphicsElement {\n open val pathLength:
SVGAnimatedNumber\n fun isPointInFill(point: DOMPoint): Boolean\n fun isPointInStroke(point: DOMPoint):
Boolean\n fun getTotalLength(): Float\n fun getPointAtLength(distance: Float): DOMPoint\n\n companion
object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE:
Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING:
Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val
DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin\n *\npublic external
abstract class SVGNumber {\n open var value: Float\n}\n\n/**\n * Exposes the JavaScript
[SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin\n *\npublic external abstract
class SVGLength {\n open val unitType: Short\n open var value: Float\n open var valueInSpecifiedUnits:
Float\n open var valueAsString: String\n fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits:
Float)\n fun convertToSpecifiedUnits(unitType: Short)\n\n companion object {\n val
SVG_LENGTHTYPE_UNKNOWN: Short\n val SVG_LENGTHTYPE_NUMBER: Short\n val
SVG_LENGTHTYPE_PERCENTAGE: Short\n val SVG_LENGTHTYPE_EMS: Short\n val
SVG_LENGTHTYPE_EXS: Short\n val SVG_LENGTHTYPE_PX: Short\n val
SVG_LENGTHTYPE_CM: Short\n val SVG_LENGTHTYPE_MM: Short\n val
SVG_LENGTHTYPE_IN: Short\n val SVG_LENGTHTYPE_PT: Short\n val SVG_LENGTHTYPE_PC:
Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin\n *\npublic external abstract
class SVGAngle {\n open val unitType: Short\n open var value: Float\n open var valueInSpecifiedUnits:
Float\n open var valueAsString: String\n fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits:
Float)\n fun convertToSpecifiedUnits(unitType: Short)\n\n companion object {\n val
SVG_ANGLETYPE_UNKNOWN: Short\n val SVG_ANGLETYPE_UNSPECIFIED: Short\n val
SVG_ANGLETYPE_DEG: Short\n val SVG_ANGLETYPE_RAD: Short\n val

```

SVG\_ANGLETYPE\_GRAD: Short

```
}
}

public external abstract class SVGNameList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: dynamic): dynamic
    fun insertItemBefore(newItem: dynamic, index: Int):
dynamic
    fun replaceItem(newItem: dynamic, index: Int): dynamic
    fun removeItem(index: Int): dynamic
    fun appendItem(newItem: dynamic): dynamic
    fun getItem(index: Int):
dynamic
}

@kotlin.internal.InlineOnly
public inline operator fun SVGNameList.get(index: Int): dynamic =
asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGNameList.set(index: Int,
newItem: dynamic) { asDynamic()[index] = newItem }

* Exposes the JavaScript
[SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin

public external
abstract class SVGNumberList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun
initialize(newItem: SVGNumber): SVGNumber
    fun insertItemBefore(newItem: SVGNumber, index: Int): SVGNumber
    fun replaceItem(newItem:
SVGNumber, index: Int): SVGNumber
    fun removeItem(index: Int): SVGNumber
    fun appendItem(newItem:
SVGNumber): SVGNumber
    fun getItem(index: Int): SVGNumber
}

@kotlin.internal.InlineOnly
public
inline operator fun SVGNumberList.get(index: Int): SVGNumber? =
asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGNumberList.set(index: Int,
newItem: SVGNumber) { asDynamic()[index] = newItem }

* Exposes the JavaScript
[SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin

public external
abstract class SVGLengthList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun
initialize(newItem: SVGLength): SVGLength
    fun insertItemBefore(newItem: SVGLength, index: Int):
SVGLength
    fun replaceItem(newItem: SVGLength, index: Int): SVGLength
    fun removeItem(index: Int):
SVGLength
    fun appendItem(newItem: SVGLength): SVGLength
    fun getItem(index: Int):
SVGLength
}

@kotlin.internal.InlineOnly
public inline operator fun SVGLengthList.get(index: Int):
SVGLength? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun
SVGLengthList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }

* Exposes the
JavaScript
[SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to
Kotlin

public external abstract class SVGAnimatedBoolean {
    open var baseVal: Boolean
    open val
animVal: Boolean
}

* Exposes the JavaScript
[SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to
Kotlin

public external abstract class SVGAnimatedEnumeration {
    open var baseVal: Short
    open val
animVal: Short
}

* Exposes the JavaScript
[SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger)
to Kotlin

public external abstract class SVGAnimatedInteger {
    open var baseVal: Int
    open val
animVal: Int
}

* Exposes the JavaScript
[SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin

public external abstract class SVGAnimatedNumber {
    open var baseVal: Float
    open val animVal:
Float
}

* Exposes the JavaScript
[SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin

public external abstract class SVGAnimatedLength {
    open val baseVal: SVGLength
    open val animVal:
SVGLength
}

* Exposes the JavaScript
[SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin

public external abstract class SVGAnimatedAngle {
    open val baseVal: SVGAngle
    open val animVal:
SVGAngle
}

* Exposes the JavaScript
[SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to
Kotlin

public external abstract class SVGAnimatedString {
    open var baseVal: String
    open val
animVal: String
}

* Exposes the JavaScript
[SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect) to Kotlin

public
```

```

external abstract class SVGAnimatedRect {\n  open val baseVal: DOMRect\n  open val animVal:
DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\n
*/\n\npublic external abstract class SVGAnimatedNumberList {\n  open val baseVal: SVGNumberList\n  open val
animVal: SVGNumberList\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin\n
*/\n\npublic external abstract class SVGAnimatedLengthList {\n  open val baseVal: SVGLengthList\n  open val
animVal: SVGLengthList\n}\n\n/**\n * Exposes the JavaScript
[SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList)
to Kotlin\n
*/\n\npublic external abstract class SVGStringList {\n  open val length: Int\n  open val numberOfItems:
Int\n  fun clear()\n  fun initialize(newItem: String): String\n  fun insertItemBefore(newItem: String, index: Int):
String\n  fun replaceItem(newItem: String, index: Int): String\n  fun removeItem(index: Int): String\n  fun
appendItem(newItem: String): String\n  fun getItem(index: Int): String\n}\n\n@kotlin.internal.InlineOnly\n\npublic
inline operator fun SVGStringList.get(index: Int): String? =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun SVGStringList.set(index: Int,
newItem: String) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin\n
*/\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface SVGUnitTypes
{\n  companion object {\n    val SVG_UNIT_TYPE_UNKNOWN:
Short\n    val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n    val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[SVGTTests](https://developer.mozilla.org/en/docs/Web/API/SVGTTests) to Kotlin\n
*/\n\npublic external interface SVGTTests {\n  val requiredExtensions: SVGStringList\n  val systemLanguage: SVGStringList\n}\n\npublic
external interface SVGFitToViewBox {\n  val viewBox: SVGAnimatedRect\n  val preserveAspectRatio:
SVGAnimatedPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript
[SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\n
*/\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface
SVGZoomAndPan {\n  var zoomAndPan: Short\n\n  companion object {\n    val
SVG_ZOOMANDPAN_UNKNOWN: Short\n    val SVG_ZOOMANDPAN_DISABLE: Short\n    val
SVG_ZOOMANDPAN_MAGNIFY: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference)
to Kotlin\n
*/\n\npublic external interface SVGURIReference {\n  val href: SVGAnimatedString\n}\n\n/**\n *
Exposes the JavaScript [SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to
Kotlin\n
*/\n\npublic external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox,
SVGZoomAndPan, WindowEventHandlers {\n  open val x: SVGAnimatedLength\n  open val y:
SVGAnimatedLength\n  open val width: SVGAnimatedLength\n  open val height: SVGAnimatedLength\n  open
var currentScale: Float\n  open val currentTranslate: DOMPointReadOnly\n  fun getIntersectionList(rect:
DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n  fun getEnclosureList(rect:
DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n  fun checkIntersection(element: SVGElement,
rect: DOMRectReadOnly): Boolean\n  fun checkEnclosure(element: SVGElement, rect: DOMRectReadOnly):
Boolean\n  fun deselectAll()\n  fun createSVGNumber():
SVGNumber\n  fun createSVGLength(): SVGLength\n  fun createSVGAngle(): SVGAngle\n  fun
createSVGPoint(): DOMPoint\n  fun createSVGMatrix(): DOMMatrix\n  fun createSVGRect(): DOMRect\n  fun
createSVGTransform(): SVGTransform\n  fun createSVGTransformFromMatrix(matrix:
DOMMatrixReadOnly): SVGTransform\n  fun getElementById(elementId: String): Element\n  fun
suspendRedraw(maxWaitMilliseconds: Int): Int\n  fun unsuspendRedraw(suspendHandleID: Int)\n  fun
unsuspendRedrawAll()\n  fun forceRedraw()\n\n  companion object {\n    val
SVG_ZOOMANDPAN_UNKNOWN: Short\n    val SVG_ZOOMANDPAN_DISABLE: Short\n    val

```



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DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS:
Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin\n
*\npublic external abstract class SVGMetadataElement : SVGElement {\n    companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val
DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin\n
*\npublic
external abstract class SVGTitleElement : SVGElement {\n    companion object {\n    val ELEMENT_NODE:
Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE:
Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING:
Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val
DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin\n
*\npublic
external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {\n    companion object
{\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING:
Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val
DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin\n
*\npublic external
abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open val width: SVGAnimatedLength\n    open val
height: SVGAnimatedLength\n    open val instanceRoot: SVGElement?\n    open val animatedInstanceRoot:
SVGElement?\n\n    companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val

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ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val
DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val
NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
open class SVGUseElementShadowRoot : ShadowRoot {\n    companion object {\n    val ELEMENT_NODE:
Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE:
Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED:
Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val
DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
SVGElementInstance {\n    val correspondingElement: SVGElement?\n    get() = definedExternally\n    val
correspondingUseElement: SVGUseElement?\n    get() = definedExternally\n}\n}\n\npublic external open class
ShadowAnimation(source: dynamic, newTarget: dynamic) {\n    open val sourceAnimation: dynamic\n}\n}\n\n**\n *
Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement)
to Kotlin\n *^\n\npublic external abstract class SVGSwitchElement : SVGGraphicsElement {\n    companion object
{\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n}\n\npublic external interface
GetSVGDocument {\n    fun getSVGDocument(): Document\n}\n}\n\n**\n * Exposes the JavaScript
[SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin\n *^\n\npublic
external abstract class SVGStyleElement : SVGElement, LinkStyle {\n    open var type: String\n    open var media:
String\n    open var title: String\n\n    companion object {\n
val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n}\n\n**\n * Exposes the JavaScript
[SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin\n *^\n\npublic external
abstract class SVGTransform {\n    open val type: Short\n    open val matrix: DOMMatrix\n    open val

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angle: Float\n fun setMatrix(matrix: DOMMatrixReadOnly)\n fun setTranslate(tx: Float, ty: Float)\n fun
setScale(sx: Float, sy: Float)\n fun setRotate(angle: Float, cx: Float, cy: Float)\n fun setSkewX(angle: Float)\n
fun setSkewY(angle: Float)\n\n companion object {\n    val SVG_TRANSFORM_UNKNOWN: Short\n    val SVG_TRANSFORM_MATRIX: Short\n    val SVG_TRANSFORM_TRANSLATE: Short\n    val
SVG_TRANSFORM_SCALE: Short\n    val SVG_TRANSFORM_ROTATE: Short\n    val
SVG_TRANSFORM_SKEWX: Short\n    val SVG_TRANSFORM_SKEWY: Short\n } \n\n\n * Exposes
the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin\n
*\n\npublic external abstract class SVGTransformList {\n    open val length: Int\n    open val numberOfItems: Int\n
fun clear()\n    fun initialize(newItem: SVGTransform): SVGTransform\n    fun insertItemBefore(newItem:
SVGTransform, index: Int): SVGTransform\n    fun replaceItem(newItem:
SVGTransform, index: Int): SVGTransform\n    fun removeItem(index: Int): SVGTransform\n    fun
appendItem(newItem: SVGTransform): SVGTransform\n    fun createSVGTransformFromMatrix(matrix:
DOMMatrixReadOnly): SVGTransform\n    fun consolidate(): SVGTransform?\n    fun getItem(index: Int):
SVGTransform\n } \n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun SVGTransformList.get(index: Int):
SVGTransform? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
SVGTransformList.set(index: Int, newItem: SVGTransform) { asDynamic()[index] = newItem } \n\n\n\n * Exposes
the JavaScript
[SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to
Kotlin\n
*\n\npublic external abstract class SVGAnimatedTransformList {\n    open val baseVal:
SVGTransformList\n    open val animVal: SVGTransformList\n } \n\n\n\n * Exposes the JavaScript
[SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio)
to Kotlin\n
*\n\npublic external abstract class SVGPreserveAspectRatio {\n    open var align: Short\n    open var
meetOrSlice: Short\n\n    companion object {\n        val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\n        val
SVG_PRESERVEASPECTRATIO_NONE: Short\n        val
SVG_PRESERVEASPECTRATIO_XMINYMIN: Short\n        val
SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short\n        val
SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short\n        val
SVG_PRESERVEASPECTRATIO_XMINYMID: Short\n        val
SVG_PRESERVEASPECTRATIO_XMIDYMID: Short\n        val
SVG_PRESERVEASPECTRATIO_XMAXYMID: Short\n        val
SVG_PRESERVEASPECTRATIO_XMINYMAX: Short\n        val
SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short\n        val
SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short\n        val SVG_MEETORSLICE_UNKNOWN: Short\n        val
SVG_MEETORSLICE_MEET: Short\n        val SVG_MEETORSLICE_SLICE: Short\n    } \n } \n\n\n\n *
Exposes the JavaScript
[SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspect
Ratio)
to Kotlin\n
*\n\npublic external abstract class SVGAnimatedPreserveAspectRatio {\n    open val baseVal:
SVGPreserveAspectRatio\n    open val animVal: SVGPreserveAspectRatio\n } \n\n\n\n * Exposes the JavaScript
[SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin\n
*\n\npublic
external abstract class SVGPathElement : SVGGeometryElement {\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val
DOCUMENT_POSITION_FOLLOWING:

```



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DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin\n *\npublic
external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {\n    companion object {\n
    val ELEMENT_NODE:
Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin\n *\npublic
external interface SVGAnimatedPoints {\n    val points: SVGPointList\n    val animatedPoints:
SVGPointList\n}\n\npublic
external abstract class SVGPointList {\n    open val length: Int\n    open val numberOfItems: Int\n    fun clear()\n
fun initialize(newItem: DOMPoint): DOMPoint\n    fun insertItemBefore(newItem: DOMPoint, index: Int):
DOMPoint\n    fun replaceItem(newItem: DOMPoint, index: Int): DOMPoint\n    fun removeItem(index: Int):
DOMPoint\n    fun appendItem(newItem: DOMPoint): DOMPoint\n    fun getItem(index: Int):
DOMPoint\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun SVGPointList.get(index: Int): DOMPoint?
= asDynamic()[index]\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun SVGPointList.set(index: Int,
newItem: DOMPoint) { asDynamic()[index] = newItem }\n\n\n/**\n * Exposes the JavaScript
[SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin\n
*\n\npublic external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {\n
companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin\n
*\n\npublic external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {\n
companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val

```

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin\n
*/\npublic external abstract class SVGTextContentElement : SVGGraphicsElement {\n    open val textLength:
SVGAnimatedLength\n    open val lengthAdjust:
SVGAnimatedEnumeration\n    fun getNumberOfChars(): Int\n    fun getComputedTextLength(): Float\n    fun
getSubStringLength(charnum: Int, nchars: Int): Float\n    fun getStartPositionOfChar(charnum: Int): DOMPoint\n
fun getEndPositionOfChar(charnum: Int): DOMPoint\n    fun getExtentOfChar(charnum: Int): DOMRect\n    fun
getRotationOfChar(charnum: Int): Float\n    fun getCharNumAtPosition(point: DOMPoint): Int\n    fun
selectSubString(charnum: Int, nchars: Int)\n\n    companion object {\n        val LENGTHADJUST_UNKNOWN:
Short\n        val LENGTHADJUST_SPACING: Short\n        val LENGTHADJUST_SPACINGANDGLYPHS:
Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to
Kotlin\n */\npublic external abstract class SVGTextPositioningElement : SVGTextContentElement {\n    open val x:
SVGAnimatedLengthList\n    open val y: SVGAnimatedLengthList\n    open val dx: SVGAnimatedLengthList\n
open val dy: SVGAnimatedLengthList\n    open val rotate: SVGAnimatedNumberList\n\n    companion object {\n
        val LENGTHADJUST_UNKNOWN: Short\n        val LENGTHADJUST_SPACING: Short\n       
val
LENGTHADJUST_SPACINGANDGLYPHS: Short\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin\n */\npublic
external abstract class SVGTextElement : SVGTextPositioningElement {\n    companion object {\n       
val
LENGTHADJUST_UNKNOWN:
Short\n        val LENGTHADJUST_SPACING: Short\n        val LENGTHADJUST_SPACINGANDGLYPHS:
Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin\n *\npublic
external abstract class SVGTSpanElement : SVGTextPositioningElement {\n    companion object {\n        val
LENGTHADJUST_UNKNOWN: Short\n        val LENGTHADJUST_SPACING: Short\n        val
LENGTHADJUST_SPACINGANDGLYPHS: Short\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to
Kotlin\n *\npublic external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {\n
    open val startOffset: SVGAnimatedLength\n    open val method: SVGAnimatedEnumeration\n    open val spacing:
SVGAnimatedEnumeration\n\n    companion object {\n        val TEXTPATH_METHODTYPE_UNKNOWN:
Short\n        val TEXTPATH_METHODTYPE_ALIGN: Short\n        val
TEXTPATH_METHODTYPE_STRETCH: Short\n        val TEXTPATH_SPACINGTYPE_UNKNOWN: Short\n
        val TEXTPATH_SPACINGTYPE_AUTO: Short\n        val TEXTPATH_SPACINGTYPE_EXACT: Short\n
        val LENGTHADJUST_UNKNOWN: Short\n        val LENGTHADJUST_SPACING: Short\n        val
LENGTHADJUST_SPACINGANDGLYPHS: Short\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n
        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\n *\npublic
external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference,
HTMLOrSVGImageElement {\n    open val x: SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open
val width: SVGAnimatedLength\n    open val height: SVGAnimatedLength\n    open val preserveAspectRatio:
SVGAnimatedPreserveAspectRatio\n
    open var crossOrigin: String?\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript

```

[SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to Kotlin

```

*\npublic external abstract
class SVGForeignObjectElement : SVGGraphicsElement {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
*\n\npublic external
abstract class SVGMarkerElement : SVGElement, SVGFitToViewBox {
    open val refX: SVGAnimatedLength
    open val refY: SVGAnimatedLength
    open val markerUnits: SVGAnimatedEnumeration
    open val markerWidth: SVGAnimatedLength
    open val markerHeight: SVGAnimatedLength
    open val orientType: SVGAnimatedEnumeration
    open val orientAngle: SVGAnimatedAngle
    open var orient: String
    fun setOrientToAuto()
    fun setOrientToAngle(angle: SVGAngle)
    companion object {
        val SVG_MARKERUNITS_UNKNOWN: Short
        val SVG_MARKERUNITS_USERSPACEONUSE: Short
        val SVG_MARKERUNITS_STROKewidth: Short
        val SVG_MARKER_ORIENT_UNKNOWN: Short
        val SVG_MARKER_ORIENT_AUTO: Short
        val SVG_MARKER_ORIENT_ANGLE: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
*\n\n**\n * Exposes the JavaScript [SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin
*\n\npublic external abstract class SVGSolidcolorElement : SVGElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
*\n\n**\n * Exposes the JavaScript [SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin
*\n\npublic external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {
    open val gradientUnits: SVGAnimatedEnumeration
    open val gradientTransform: SVGAnimatedTransformList
    open val spreadMethod: SVGAnimatedEnumeration
    companion object {
        val SVG_SPREADMETHOD_UNKNOWN: Short
    }
}

```

```

    val SVG_SPREADMETHOD_PAD: Short\n    val SVG_SPREADMETHOD_REFLECT: Short\n    val
SVG_SPREADMETHOD_REPEAT: Short\n    val SVG_UNIT_TYPE_UNKNOWN: Short\n    val
SVG_UNIT_TYPE_USERSPACEONUSE: Short\n    val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n
    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to
Kotlin\n */\npublic external abstract class SVGLinearGradientElement : SVGGradientElement {\n    open val x1:
SVGAnimatedLength\n    open val y1: SVGAnimatedLength\n    open val x2: SVGAnimatedLength\n    open val
y2: SVGAnimatedLength\n\n    companion object {\n        val SVG_SPREADMETHOD_UNKNOWN: Short\n
val SVG_SPREADMETHOD_PAD: Short\n        val SVG_SPREADMETHOD_REFLECT: Short\n        val
SVG_SPREADMETHOD_REPEAT: Short\n        val SVG_UNIT_TYPE_UNKNOWN: Short\n        val
SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n
        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val
DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript
[SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to
Kotlin\n */\npublic external abstract class SVGRadialGradientElement : SVGGradientElement {\n    open val cx:
SVGAnimatedLength\n    open val cy: SVGAnimatedLength\n    open val r: SVGAnimatedLength\n    open val fx:
SVGAnimatedLength\n    open val fy: SVGAnimatedLength\n    open val fr: SVGAnimatedLength\n\n    companion
object {\n        val SVG_SPREADMETHOD_UNKNOWN:
Short\n        val SVG_SPREADMETHOD_PAD: Short\n        val SVG_SPREADMETHOD_REFLECT: Short\n
        val SVG_SPREADMETHOD_REPEAT: Short\n        val SVG_UNIT_TYPE_UNKNOWN: Short\n        val
SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript

```

```

Short\n }\n\npublic external abstract class SVGMeshGradientElement : SVGGradientElement {\n
companion object {\n    val SVG_SPREADMETHOD_UNKNOWN: Short\n    val
SVG_SPREADMETHOD_PAD: Short\n    val SVG_SPREADMETHOD_REFLECT: Short\n    val
SVG_SPREADMETHOD_REPEAT: Short\n    val SVG_UNIT_TYPE_UNKNOWN: Short\n    val
SVG_UNIT_TYPE_USERSPACEONUSE: Short\n    val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n
    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING:
Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val
DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
SVGMeshrowElement : SVGElement {\n    companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external
abstract class SVGMeshpatchElement : SVGElement {\n    companion object {\n    val ELEMENT_NODE:
Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE:
Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n**\n * Exposes the JavaScript
[SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement)
to Kotlin\n *\n\npublic external abstract class SVGStopElement : SVGElement {\n    open val offset:
SVGAnimatedNumber\n\n    companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n**\n * Exposes the JavaScript
[SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement)

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DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n\n/\*\*\n \* Exposes the JavaScript [SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin\n \*/\npublic external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement {\n open var type: String\n open var crossOrigin: String?\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n\n/\*\*\n \* Exposes the JavaScript [SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n \*/\npublic external abstract class SVGElement : SVGGraphicsElement, SVGURIReference {\n open val target: SVGAnimatedString\n open val download: SVGAnimatedString\n open val rel: SVGAnimatedString\n open val relList: SVGAnimatedString\n open val hreflang: SVGAnimatedString\n open val type: SVGAnimatedString\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n\n/\*\*\n \* Exposes the JavaScript [SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin\n \*/\npublic external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {\n companion object {\n val SVG\_ZOOMANDPAN\_UNKNOWN: Short\n val SVG\_ZOOMANDPAN\_DISABLE: Short\n val SVG\_ZOOMANDPAN\_MAGNIFY: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n\n/\*\*\n \* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.files\n\nimport kotlin.js.\*\nimport org.khronos.webgl.\*\nimport org.w3c.css.masking.\*\nimport org.w3c.dom.\*\nimport org.w3c.dom.clipboard.\*\nimport org.w3c.dom.css.\*\nimport org.w3c.dom.encryptedmedia.\*\nimport

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org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport
org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin\n *\npublic external open class
Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) :
MediaProvider, ImageBitmapSource {\n  open val size: Number\n  open val type: String\n  open val isClosed:
Boolean\n  fun slice(start: Int = definedExternally, end: Int = definedExternally, contentType: String =
definedExternally):
Blob\n  fun close()\n}\n\npublic external interface BlobPropertyBag {\n  var type: String? /* = "" */\n  get()
= definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
BlobPropertyBag(type: String? = ""): BlobPropertyBag {\n  val o = js("{}")\n  o["type"] = type\n  return
o\n}\n\n/**\n * Exposes the JavaScript [File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin\n
*\npublic external open class File(fileBits: Array<dynamic>, fileName: String, options: FilePropertyBag =
definedExternally) : Blob {\n  open val name: String\n  open val lastModified: Int\n}\n\npublic external interface
FilePropertyBag : BlobPropertyBag {\n  var lastModified: Int?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun FilePropertyBag(lastModified: Int? =
undefined, type: String? = ""): FilePropertyBag {\n  val o = js("{}")\n
o["lastModified"] = lastModified\n  o["type"] = type\n  return o\n}\n\n/**\n * Exposes the JavaScript
[FileList](https://developer.mozilla.org/en/docs/Web/API/FileList) to Kotlin\n *\npublic external abstract class
FileList : ItemArrayLike<File> {\n  override fun item(index: Int): File?\n}\n\n@kotlin.internal.InlineOnly\n\npublic
inline operator fun FileList.get(index: Int): File? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin\n *\npublic external open class
FileReader : EventTarget {\n  open val readyState: Short\n  open val result: dynamic\n  open val error:
dynamic\n  var onloadstart: ((ProgressEvent) -> dynamic)?\n  var onprogress: ((ProgressEvent) -> dynamic)?\n
var onload: ((Event) -> dynamic)?\n  var onabort: ((Event) -> dynamic)?\n  var onerror: ((Event) -> dynamic)?\n
var onloadend: ((Event) -> dynamic)?\n  fun readAsArrayBuffer(blob: Blob)\n
fun readAsBinaryString(blob: Blob)\n  fun readAsText(blob: Blob, label: String = definedExternally)\n  fun
readAsDataURL(blob: Blob)\n  fun abort()\n\n  companion object {\n    val EMPTY: Short\n    val
LOADING: Short\n    val DONE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin\n *\npublic external
open class FileReaderSync {\n  fun readAsArrayBuffer(blob: Blob): ArrayBuffer\n  fun readAsBinaryString(blob:
Blob): String\n  fun readAsText(blob: Blob, label: String = definedExternally): String\n  fun
readAsDataURL(blob: Blob): String\n}\n\n/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.notifications\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.performance.*\nimport
org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin\n *\npublic external open
class Notification(title: String, options: NotificationOptions = definedExternally) : EventTarget {\n  var onclick:
((MouseEvent) -> dynamic)?\n  var onerror: ((Event) -> dynamic)?\n  open val title: String\n  open val dir:
NotificationDirection\n  open val lang: String\n  open val body: String\n

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open val tag: String\n open val image: String\n open val icon: String\n open val badge: String\n open val
sound: String\n open val vibrate: Array<out Int>\n open val timestamp: Number\n open val renotify:
Boolean\n open val silent: Boolean\n open val noscreen: Boolean\n open val requireInteraction: Boolean\n
open val sticky: Boolean\n open val data: Any?\n open val actions: Array<out NotificationAction>\n fun
close()\n\n companion object {\n    val permission: NotificationPermission\n    val maxActions: Int\n    fun
requestPermission(deprecatedCallback: (NotificationPermission) -> Unit) = definedExternally\n
Promise<NotificationPermission>\n } \n\n\npublic external interface NotificationOptions {\n    var dir:
NotificationDirection? /* = NotificationDirection.AUTO */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var lang: String? /* = "" */\n    get() = definedExternally\n
    set(value) = definedExternally\n    var body: String? /* = "" */\n    get() = definedExternally\n    set(value)
= definedExternally\n    var tag: String? /* = "" */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var image: String?\n    get() = definedExternally\n    set(value) = definedExternally\n
var icon: String?\n    get() = definedExternally\n    set(value) = definedExternally\n    var badge: String?\n
get() = definedExternally\n    set(value) = definedExternally\n    var sound: String?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var vibrate: dynamic\n    get() = definedExternally\n
    set(value) = definedExternally\n    var timestamp: Number?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var renotify: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var silent: Boolean? /*
= false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var noscreen: Boolean? /* =
false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var requireInteraction: Boolean? /*
= false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var sticky: Boolean? /* = false
*/\n    get() = definedExternally\n    set(value) = definedExternally\n    var data: Any? /* = null */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var actions: Array<NotificationAction>? /* = arrayOf()
*/\n    get() = definedExternally\n    set(value) = definedExternally\n } \n\n@kotlin.internal.InlineOnly\npublic
inline fun NotificationOptions(dir: NotificationDirection? = NotificationDirection.AUTO, lang: String? = "", body:
String? = "", tag: String? = "", image: String? = undefined, icon: String? = undefined, badge: String? = undefined,
sound: String? = undefined, vibrate:
dynamic = undefined, timestamp: Number? = undefined, renotify: Boolean? = false, silent: Boolean? = false,
noscreen: Boolean? = false, requireInteraction: Boolean? = false, sticky: Boolean? = false, data: Any? = null,
actions: Array<NotificationAction>? = arrayOf()): NotificationOptions {\n    val o = js("{}")\n    o["dir"] = dir\n
o["lang"] = lang\n    o["body"] = body\n    o["tag"] = tag\n    o["image"] = image\n    o["icon"] = icon\n
o["badge"] = badge\n    o["sound"] = sound\n    o["vibrate"] = vibrate\n    o["timestamp"] = timestamp\n
o["renotify"] = renotify\n    o["silent"] = silent\n    o["noscreen"] = noscreen\n    o["requireInteraction"] =
requireInteraction\n    o["sticky"] = sticky\n    o["data"] = data\n    o["actions"] = actions\n    return
o\n } \n\n\npublic external interface NotificationAction {\n    var action: String?\n    get() = definedExternally\n
set(value) = definedExternally\n    var title: String?\n
    get() = definedExternally\n    set(value) = definedExternally\n    var icon: String?\n    get() =
definedExternally\n    set(value) = definedExternally\n } \n\n@kotlin.internal.InlineOnly\npublic inline fun
NotificationAction(action: String?, title: String?, icon: String? = undefined): NotificationAction {\n    val o =
js("{}")\n    o["action"] = action\n    o["title"] = title\n    o["icon"] = icon\n    return o\n } \n\n\npublic external
interface GetNotificationOptions {\n    var tag: String? /* = "" */\n    get() = definedExternally\n    set(value) =
definedExternally\n } \n\n@kotlin.internal.InlineOnly\npublic inline fun GetNotificationOptions(tag: String? = ""):
GetNotificationOptions {\n    val o = js("{}")\n    o["tag"] = tag\n    return o\n } \n\n\n/**\n * Exposes the
JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin\n
*/\n\npublic external open class NotificationEvent(type: String, eventInitDict:
NotificationEventInit) : ExtendableEvent {\n    open val notification: Notification\n    open val action: String\n\n
companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET:
Short\n    val BUBBLING_PHASE: Short\n } \n\n\npublic external interface NotificationEventInit :

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ExtendableEventInit {\n  var notification: Notification?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var action: String? /* = "" */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun NotificationEventInit(notification:
Notification?, action: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): NotificationEventInit {\n  val o = js("{}")\n  o["notification"] = notification\n  o["action"] =
action\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"]
= composed\n  return o\n}\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
NotificationPermission {\n  companion object\n}\n\npublic inline val
NotificationPermission.Companion.DEFAULT: NotificationPermission get() =
"default".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val
NotificationPermission.Companion.DENIED: NotificationPermission get() =
"denied".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val
NotificationPermission.Companion.GRANTED: NotificationPermission get() =
"granted".asDynamic().unsafeCast<NotificationPermission>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
NotificationDirection {\n  companion object\n}\n\npublic inline val NotificationDirection.Companion.AUTO:
NotificationDirection get() = "auto".asDynamic().unsafeCast<NotificationDirection>()\n\npublic
inline val NotificationDirection.Companion.LTR: NotificationDirection get() =
"ltr".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val
NotificationDirection.Companion.RTL: NotificationDirection get() =
"rtl".asDynamic().unsafeCast<NotificationDirection>()\n\n/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n * \n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.workers\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin\n */\n\npublic external
abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker,
UnionClientOrMessagePortOrServiceWorker {\n  open val scriptURL: String\n  open val state:
ServiceWorkerState\n  open var onstatechange: ((Event) -> dynamic)?\n  fun postMessage(message: Any?,
transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to
Kotlin\n */\n\npublic external abstract class ServiceWorkerRegistration : EventTarget {\n  open val installing:
ServiceWorker?\n  open val waiting: ServiceWorker?\n  open val active: ServiceWorker?\n  open val
scope: String\n  open var onupdatefound: ((Event) -> dynamic)?\n  open val APISpace: dynamic\n  fun
update(): Promise<Unit>\n  fun unregister(): Promise<Boolean>\n  fun showNotification(title: String, options:
NotificationOptions = definedExternally): Promise<Unit>\n  fun getNotifications(filter: GetNotificationOptions =
definedExternally): Promise<Array<Notification>>\n  fun methodName(): Promise<dynamic>\n}\n\n/**\n *
Exposes the JavaScript
[ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin\n */\n\npublic external abstract class ServiceWorkerContainer : EventTarget {\n  open val controller:
ServiceWorker?\n  open val ready: Promise<ServiceWorkerRegistration>\n  open var oncontrollerchange:
((Event) -> dynamic)?\n  open var onmessage: ((MessageEvent) -> dynamic)?\n  fun register(scriptURL: String,

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options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\n fun
getRegistration(clientURL:
String = definedExternally): Promise<Any?>\n fun getRegistrations():
Promise<Array<ServiceWorkerRegistration>>\n fun startMessages()\n\n\npublic external interface
RegistrationOptions {\n var scope: String?\n get() = definedExternally\n set(value) = definedExternally\n
var type: WorkerType? /* = WorkerType.CLASSIC */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun RegistrationOptions(scope: String? =
undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {\n val o = js("{}")\n
o["scope"] = scope\n o["type"] = type\n return o\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to
Kotlin\n *\n\npublic external open class ServiceWorkerMessageEvent(type: String, eventInitDict:
ServiceWorkerMessageEventInit = definedExternally) : Event {\n open val data:
Any?\n open val origin: String\n open val lastEventId: String\n open val source:
UnionMessagePortOrServiceWorker?\n open val ports: Array<out MessagePort>?\n\n companion object {\n
val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\n\npublic external interface ServiceWorkerMessageEventInit : EventInit {\n
var data: Any?\n get() = definedExternally\n set(value) = definedExternally\n var origin: String?\n
get() = definedExternally\n set(value) = definedExternally\n var lastEventId: String?\n get() =
definedExternally\n set(value) = definedExternally\n var source: UnionMessagePortOrServiceWorker?\n
get() = definedExternally\n set(value) = definedExternally\n var ports: Array<MessagePort>?\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n\n@kotlin.internal.InlineOnly\npublic inline fun
ServiceWorkerMessageEventInit(data:
Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\n val o =
js("{}")\n o["data"] = data\n o["origin"] = origin\n o["lastEventId"] = lastEventId\n o["source"] =
source\n o["ports"] = ports\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] =
composed\n return o\n}\n\n\n/**\n * Exposes the JavaScript
[ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to
Kotlin\n *\n\npublic external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {\n open val clients:
Clients\n open val registration: ServiceWorkerRegistration\n open var oninstall: ((Event) -> dynamic)?\n open
var onactivate: ((Event)
-> dynamic)?\n open var onfetch: ((FetchEvent) -> dynamic)?\n open var onforeignfetch: ((Event) ->
dynamic)?\n open var onmessage: ((MessageEvent) -> dynamic)?\n open var onnotificationclick:
((NotificationEvent) -> dynamic)?\n open var onnotificationclose: ((NotificationEvent) -> dynamic)?\n open var
onfunctionalevent: ((Event) -> dynamic)?\n fun skipWaiting(): Promise<Unit>\n}\n\n\n/**\n * Exposes the
JavaScript [Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin\n *\n\npublic external abstract
class Client : UnionClientOrMessagePortOrServiceWorker {\n open val url: String\n open val frameType:
FrameType\n open val id: String\n fun postMessage(message: Any?, transfer: Array<dynamic> =
definedExternally)\n}\n\n\n/**\n * Exposes the JavaScript
[WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to Kotlin\n *\n\npublic external
abstract class WindowClient : Client {\n open val visibilityState: dynamic\n open
val focused: Boolean\n fun focus(): Promise<WindowClient>\n fun navigate(url: String):
Promise<WindowClient>\n}\n\n\n/**\n * Exposes the JavaScript
[Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin\n *\n\npublic external abstract class
Clients {\n fun get(id: String): Promise<Any?>\n fun matchAll(options: ClientQueryOptions =
definedExternally): Promise<Array<Client>>\n fun openWindow(url: String): Promise<WindowClient?>\n fun
claim(): Promise<Unit>\n}\n\n\n\npublic external interface ClientQueryOptions {\n var includeUncontrolled:

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Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var type:
ClientType? /* = ClientType.WINDOW */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ClientQueryOptions(includeUncontrolled:
Boolean? = false, type: ClientType? = ClientType.WINDOW): ClientQueryOptions {\n    val o = js("{}")\n    o["includeUncontrolled"] = includeUncontrolled\n    o["type"] = type\n    return o\n}\n\n/**\n * Exposes the
JavaScript [ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin\n
*/\n\npublic external open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit =
definedExternally) : Event {\n    fun waitUntil(f: Promise<Any?>)\n\n    companion object {\n        val NONE:
Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE:
Short\n    }\n}\n\npublic external interface ExtendableEventInit : EventInit\n\n@kotlin.internal.InlineOnly\npublic
inline fun ExtendableEventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): ExtendableEventInit {\n    val o = js("{}")\n    o["bubbles"] = bubbles\n    o["cancelable"] =
cancelable\n    o["composed"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent)
to Kotlin\n
*/\n\npublic external open class InstallEvent(type: String, eventInitDict: ExtendableEventInit =
definedExternally) : ExtendableEvent {\n    fun registerForeignFetch(options: ForeignFetchOptions)\n\n    companion
object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET:
Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ForeignFetchOptions {\n    var
scopes: Array<String>?\n    get() = definedExternally\n    set(value) = definedExternally\n    var origins:
Array<String>?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchOptions(scopes:
Array<String>?, origins: Array<String>?): ForeignFetchOptions {\n    val o = js("{}")\n    o["scopes"] =
scopes\n    o["origins"] = origins\n    return o\n}\n\n/**\n * Exposes the JavaScript
[FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent)
to Kotlin\n
*/\n\npublic external open class FetchEvent(type: String, eventInitDict: FetchEventInit) :
ExtendableEvent {\n    open val request: Request\n    open val clientId: String?\n    open val isReload: Boolean\n    fun
respondWith(r: Promise<Response>)\n\n    companion object {\n        val NONE: Short\n        val
CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic
external interface FetchEventInit : ExtendableEventInit {\n    var request: Request?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var clientId: String? /* = null */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var isReload: Boolean? /* = false */\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
FetchEventInit(request: Request?, clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean?
= false, cancelable: Boolean? = false, composed: Boolean? = false): FetchEventInit {\n    val o = js("{}")\n    o["request"] = request\n    o["clientId"] = clientId\n    o["isReload"] = isReload\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\npublic external open class
ForeignFetchEvent(type: String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {\n    open val request:
Request\n    open val origin: String\n    fun respondWith(r: Promise<ForeignFetchResponse>)\n\n    companion
object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ForeignFetchEventInit : ExtendableEventInit {\n    var
request: Request?\n    get() = definedExternally\n    set(value) = definedExternally\n    var origin: String? /*
= \"null\" */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun ForeignFetchEventInit(request: Request?, origin: String? = \"null\", bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): ForeignFetchEventInit {\n    val o = js("{}")\n    o["request"] = request\n    o["origin"] = origin\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\npublic external interface ForeignFetchResponse {\n    var response:
Response?\n    get() = definedExternally\n    set(value) = definedExternally\n    var origin: String?\n    get() =

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definedExternally\n    set(value) = definedExternally\n    var headers: Array<String>?\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ForeignFetchResponse(response: Response?, origin: String? = undefined, headers: Array<String>? = undefined):
ForeignFetchResponse {\n
    val o = js("{}")\n    o["response"] = response\n    o["origin"] = origin\n    o["headers"] = headers\n    return
o\n}\n\n/**\n * Exposes the JavaScript
[ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin\n
*/\npublic external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit =
definedExternally) : ExtendableEvent {\n    open val data: Any?\n    open val origin: String\n    open val lastEventId:
String\n    open val source: UnionClientOrMessagePortOrServiceWorker?\n    open val ports: Array<out
MessagePort>?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val
AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n\npublic external interface
ExtendableMessageEventInit : ExtendableEventInit {\n    var data: Any?\n    get() = definedExternally\n
set(value) = definedExternally\n    var origin: String?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var lastEventId: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var source: UnionClientOrMessagePortOrServiceWorker?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var ports: Array<MessagePort>?\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ExtendableMessageEventInit(data: Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined,
source: UnionClientOrMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableMessageEventInit
{\n    val o = js("{}")\n    o["data"] = data\n    o["origin"] = origin\n    o["lastEventId"] = lastEventId\n
o["source"] = source\n    o["ports"] = ports\n    o["bubbles"] = bubbles\n    o["cancelable"]
= cancelable\n    o["composed"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin\n
*/\npublic external abstract class Cache
{\n    fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n    fun
matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally):
Promise<Array<Response>>\n    fun add(request: dynamic): Promise<Unit>\n    fun addAll(requests:
Array<dynamic>): Promise<Unit>\n    fun put(request: dynamic, response: Response): Promise<Unit>\n    fun
delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>\n    fun
keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally):
Promise<Array<Request>>\n}\n\npublic external interface CacheQueryOptions {\n    var ignoreSearch: Boolean? /*
= false */\n    get() = definedExternally\n    set(value) = definedExternally\n
    var ignoreMethod: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n
    var ignoreVary: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n
    var cacheName: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun CacheQueryOptions(ignoreSearch:
Boolean? = false, ignoreMethod: Boolean? = false, ignoreVary: Boolean? = false, cacheName: String? = undefined):
CacheQueryOptions {\n    val o = js("{}")\n    o["ignoreSearch"] = ignoreSearch\n    o["ignoreMethod"] =
ignoreMethod\n    o["ignoreVary"] = ignoreVary\n    o["cacheName"] = cacheName\n    return o\n}\n\npublic
external interface CacheBatchOperation {\n    var type: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var request: Request?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var response: Response?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var options: CacheQueryOptions?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun CacheBatchOperation(type: String? =
undefined, request: Request? = undefined, response: Response? = undefined, options: CacheQueryOptions? =
undefined): CacheBatchOperation {\n    val o = js("{}")\n    o["type"] = type\n    o["request"] = request\n
o["response"] = response\n    o["options"] = options\n    return o\n}\n\n/**\n * Exposes the JavaScript

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[CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin\n *\npublic external
abstract class CacheStorage {\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally):
Promise<Any?>\n fun has(cacheName: String): Promise<Boolean>\n fun open(cacheName: String):
Promise<Cache>\n fun delete(cacheName:
String): Promise<Boolean>\n fun keys(): Promise<Array<String>>\n}\n\npublic external open class
FunctionalEvent : ExtendableEvent {\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface UnionMessagePortOrServiceWorker\n\npublic external interface
UnionClientOrMessagePortOrServiceWorker\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface
ServiceWorkerState {\n companion object\n}\n\npublic inline val ServiceWorkerState.Companion.INSTALLING:
ServiceWorkerState get() = "installing".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() =
"installed".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() =
"activating".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic
inline val ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() =
"activated".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() =
"redundant".asDynamic().unsafeCast<ServiceWorkerState>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface FrameType {\n
companion object\n}\n\npublic inline val FrameType.Companion.AUXILIARY: FrameType get() =
"auxiliary".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.TOP_LEVEL:
FrameType get() = "top-level".asDynamic().unsafeCast<FrameType>()\n\npublic inline val
FrameType.Companion.NESTED: FrameType get() = "nested".asDynamic().unsafeCast<FrameType>()\n\npublic
inline val FrameType.Companion.NONE: FrameType get() =
"none".asDynamic().unsafeCast<FrameType>()\n\n/* please, don't
implement this interface! *\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface ClientType {\n companion object\n}\n\npublic inline val ClientType.Companion.WINDOW: ClientType
get() = "window".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.WORKER:
ClientType get() = "worker".asDynamic().unsafeCast<ClientType>()\n\npublic inline val
ClientType.Companion.SHAREDWORKER: ClientType get() =
"sharedworker".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.ALL:
ClientType get() = "all".asDynamic().unsafeCast<ClientType>()}\n\n/* Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.xr\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport
org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport
org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport org.w3c.dom.parsing.*\nimport
org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport
org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport
org.w3c.workers.*\n\n/**\n * Exposes the JavaScript

```

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[XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to
Kotlin\n *\n\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\n open var onloadstart:
((ProgressEvent) -> dynamic)?\n open var onprogress: ((ProgressEvent) -> dynamic)?\n open var onabort:
((Event) -> dynamic)?\n open var onerror: ((Event) -> dynamic)?\n open var onload: ((Event) -> dynamic)?\n

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open var ontimeout: ((Event)
-> dynamic)?\n open var onloadend: ((Event) -> dynamic)?\n}\n\npublic external abstract class
XMLHttpRequestUpload : XMLHttpRequestEventTarget\n/*\n * Exposes the JavaScript
[XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to Kotlin\n *\npublic
external open class XMLHttpRequest : XMLHttpRequestEventTarget {\n var onreadystatechange: ((Event) ->
dynamic)?\n open val readyState: Short\n var timeout: Int\n var withCredentials: Boolean\n open val upload:
XMLHttpRequestUpload\n open val responseURL: String\n open val status: Short\n open val statusText:
String\n var responseType: XMLHttpRequestResponseType\n open val response: Any?\n open val
responseText: String\n open val responseXML: Document?\n fun open(method: String, url: String)\n fun
open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? =
definedExternally)\n fun setRequestHeader(name: String,
value: String)\n fun send(body: dynamic = definedExternally)\n fun abort()\n fun getResponseHeader(name:
String): String?\n fun getAllResponseHeaders(): String\n fun overrideMimeType(mime: String)\n\n
companion object {\n val UNSENT: Short\n val OPENED: Short\n val HEADERS_RECEIVED:
Short\n val LOADING: Short\n val DONE: Short\n }\n}\n/*\n * Exposes the JavaScript
[FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\n *\npublic external open class
FormData(form: HTMLFormElement = definedExternally) {\n fun append(name: String, value: String)\n fun
append(name: String, value: Blob, filename: String = definedExternally)\n fun delete(name: String)\n fun
get(name: String): dynamic\n fun getAll(name: String): Array<dynamic>\n fun has(name: String): Boolean\n
fun set(name: String, value: String)\n fun set(name: String, value: Blob, filename: String =
definedExternally)\n}\n/*\n *
Exposes the JavaScript [ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin\n
*\npublic external open class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) :
Event {\n open val lengthComputable: Boolean\n open val loaded: Number\n open val total: Number\n\n
companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET:
Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface ProgressEventInit : EventInit {\n
var lengthComputable: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n var loaded: Number? /* = 0 */\n get() = definedExternally\n set(value) =
definedExternally\n var total: Number? /* = 0 */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ProgressEventInit(lengthComputable:
Boolean? =
false, loaded: Number? = 0, total: Number? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): ProgressEventInit {\n val o = js("{}")\n o["lengthComputable"] =
lengthComputable\n o["loaded"] = loaded\n o["total"] = total\n o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/* please, don't implement this
interface! */\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
XMLHttpRequestResponseType {\n companion object\n}\n\npublic inline val
XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() =
"".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() =
"arraybuffer".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType
get() = "blob".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() =
"document".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() =
"json".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() =

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\"text\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\"/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport
kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationRetention.SOURCE\nimport
kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\nimport
kotlin.reflect.KClass\n\n/**\n * Signals that the annotated annotation class is a marker of an experimental API.\n
*\n * Any declaration annotated with that marker is considered an experimental declaration\n * and its call sites
should accept the experimental aspect of it either by using [UseExperimental],\n * or by being annotated with that
marker themselves, effectively causing further propagation of that experimental aspect.\n *\n * This class is
deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].\n
*\n * @Target(ANNOTATION_CLASS)\n * @Retention(BINARY)\n * @SinceKotlin(\"1.2\")\n * @RequireKotlin(\"1.2.50
\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n * @Deprecated(\"Please use RequiresOptIn
instead.\")\n */\n public annotation class Experimental(val level: Level = Level.ERROR) {\n
    /**\n     * Severity of the diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental
aspect\n     * of that API either by using [UseExperimental] or by being annotated with the corresponding marker
annotation.\n     *\n     * public enum class Level {\n     *     /** Specifies that a warning should be reported on incorrect
usages of this experimental API. *\n     *     WARNING,\n     *     /** Specifies that an error should be reported on
incorrect usages of this experimental API. *\n     *     ERROR,\n     *     }\n }\n\n/**\n * Allows to use experimental API
denoted by the given markers in the annotated file, declaration, or expression.\n * If a declaration is annotated with
[UseExperimental], its usages are **not** required to opt-in to that experimental API.\n *\n * This class is
deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].\n *\n * @Target(\n     CLASS,
PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION,
PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,
TYPEALIAS)\n *\n * @Retention(SOURCE)\n * @SinceKotlin(\"1.2\")\n * @RequireKotlin(\"1.2.50\",
versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n * @Deprecated(\"Please use OptIn instead.\",
ReplaceWith(\"OptIn(*markerClass)\", \"kotlin.OptIn\"))\n */\n public annotation class UseExperimental(\n     vararg val
markerClass: KClass<out Annotation>)\n\n\n * @Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION,
TYPEALIAS)\n * @Retention(BINARY)\n */\n internal annotation class WasExperimental(\n     vararg val markerClass:
KClass<out Annotation>)\n\n\", \"package kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * This
annotation marks the standard library API that is considered experimental and is not subject to the\n * [general
compatibility guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the
standard library:\n * the behavior of such API may be changed or the API may be removed completely in any
further release.\n *\n * > Beware using the annotated API especially if you're developing a library, since your library
might become
binary incompatible\n * with the future versions of the standard library.\n *\n * Any usage of a declaration
annotated with `@ExperimentalStdlibApi` must be accepted either by\n * annotating that usage with the [OptIn]
annotation, e.g. `@OptIn(ExperimentalStdlibApi::class)`,\n * or by using the compiler argument `-Xopt-
in=kotlin.ExperimentalStdlibApi`. \n *\n * @Suppress(\"DEPRECATION\")\n * @Experimental(level =
Experimental.Level.ERROR)\n * @RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n * @Retention(AnnotationRetention.BINARY)\n * @Target(\n     CLASS,\n
ANNOTATION_CLASS,\n     PROPERTY,\n     FIELD,\n     LOCAL_VARIABLE,\n     VALUE_PARAMETER,\n
CONSTRUCTOR,\n     FUNCTION,\n     PROPERTY_GETTER,\n     PROPERTY_SETTER,\n
TYPEALIAS)\n *\n * @MustBeDocumented\n * @SinceKotlin(\"1.3\")\n */\n public annotation class
ExperimentalStdlibApi\n\", \"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport
kotlin.annotation.AnnotationTarget.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Allows to

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infer generic type arguments of a function from the calls in the annotated function parameter of that function.  
When this annotation is placed on a generic function parameter of a function, it enables to infer the type arguments of that generic function from the lambda body passed to that parameter. The calls that affect inference are either members of the receiver type of an annotated function parameter or extensions for that type. The extensions must be themselves annotated with `@BuilderInference`. Example: we declare `fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>().->Unit): Sequence<T>` and use it like `val result = sequence { yield("result") }`. Here the type argument of the resulting sequence is inferred

to `String` from the argument of the `[SequenceScope.yield]` function, that is called inside the lambda passed to `[sequence]`. Note: this annotation is experimental, see `[ExperimentalTypeInference]` on how to opt-in for it.

```
@Target(VALUE_PARAMETER, FUNCTION, PROPERTY)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.3")
@ExperimentalTypeInference
public annotation class BuilderInference
/* Enables overload selection based on the type of the value returned from lambda argument.
 * When two or more function overloads have otherwise the same parameter lists that differ only in the return type of a functional parameter, this annotation enables overload selection by the type of the value returned from the lambda function passed to this functional parameter.
 * Example:
 * @OverloadResolutionByLambdaReturnType
 * fun create(intProducer: () -> Int): Int
 * fun create(doubleProducer: () -> Double): Double
 * val newValue = create { 3.14 }
```

The annotation being applied to one of overloads allows to resolve this ambiguity by analyzing what value is returned from the lambda function. This annotation is also used to discriminate the annotated overloads in case if overload selection still cannot choose one of them even taking in account the result of lambda parameter analysis. In that case a warning is reported. Note: this annotation is experimental, see `[ExperimentalTypeInference]` on how to opt-in for it.

```
@Target(FUNCTION)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.4")
@ExperimentalTypeInference
public annotation class OverloadResolutionByLambdaReturnType, /* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin
import kotlin.annotation.AnnotationTarget.*
import kotlin.internal.RequireKotlin
import
```

```
kotlin.internal.RequireKotlinVersionKind
/* The experimental multiplatform support API marker.
 * Any usage of a declaration annotated with @ExperimentalMultiplatform must be accepted either by annotating that usage with the [OptIn] annotation, e.g. @OptIn(ExperimentalMultiplatform::class), or by using the compiler argument -Xopt-in=kotlin.ExperimentalMultiplatform.
```

```
@Suppress("DEPRECATION")
@Experimental
@RequiresOptIn
@MustBeDocumented
@Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER,
```

```
TYPEALIAS)
@Retention(AnnotationRetention.BINARY)
@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)
public annotation class ExperimentalMultiplatform
/* Marks an expected annotation class that it isn't required to have actual counterparts in
```

all platforms. This annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that class as `"optional"`. Optional expected class is allowed to have no corresponding actual class on the platform. Optional annotations can only be used to annotate something, not as types in signatures. If an optional annotation has no corresponding actual class on a platform, the annotation entries where it's used are simply erased when compiling code on that platform. Note: this annotation is experimental, see `[ExperimentalMultiplatform]` on how to opt-in for it.

```
@Target(ANNOTATION_CLASS)
@Retention(AnnotationRetention.BINARY)
@ExperimentalMultiplatform
@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)
public annotation class OptionalExpectation, /* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
```

Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage kotlin\n\nimport kotlin.annotation.AnnotationRetention.BINARY\n\nimport kotlin.annotation.AnnotationRetention.SOURCE\n\nimport kotlin.annotation.AnnotationTarget.\*\n\nimport kotlin.internal.RequireKotlin\n\nimport kotlin.internal.RequireKotlinVersionKind\n\nimport kotlin.reflect.KClass\n\n/\*\*\n \* Signals that the annotated annotation class is a marker of an API that requires an explicit opt-in.\n \* Call sites of any declaration annotated with that marker should opt in to the API either by using [OptIn],\n \* or by being annotated with that marker themselves, effectively causing further propagation of the opt-in requirement.\n \* This class requires opt-in itself and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.\n \* @property message message to be reported on usages of API without an explicit opt-in, or empty string for the default message.\n \*

The default message

is: `"This declaration is experimental and its usage should be marked with 'Marker' or '@OptIn(Marker::class)";` where `Marker` is the opt-in requirement marker.\n \* @property level specifies how usages of API without an explicit opt-in are reported in code.\n

```

*/\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin("1.3")\n@RequireKotlin("1.3.70", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class RequiresOptIn(\n    val message: String = "",\n    val level: Level = Level.ERROR) {\n    /**\n     * Severity of the diagnostic that should be reported on usages which did not explicitly opt into\n     * the API either by using [OptIn] or by being annotated with the corresponding marker annotation.\n     */\n    public enum class Level {\n        /** Specifies that a warning should be reported on incorrect usages of this API. */\n        WARNING,\n        /** Specifies that an error should be reported on incorrect usages

```

```

of this API. */\n        ERROR,\n    }
}\n\n/**\n * Allows to use the API denoted by the given markers in the annotated file, declaration, or expression.\n * If a declaration is annotated with [OptIn], its usages are **not** required to opt in to that API.\n * This class requires opt-in itself and can only be used with the compiler argument -Xopt-in=kotlin.RequiresOptIn.\n */\n@Target(\n    CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,

```

```

TYPEALIAS)\n\n@Retention(SOURCE)\n@SinceKotlin("1.3")\n@RequireKotlin("1.3.70", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class OptIn(\n    vararg val markerClass: KClass<out Annotation>)\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

```

```

license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport

```

```

kotlin.js.JsName\n\n/**\n * Provides a skeletal implementation of the read-only [Collection] interface.\n * @param E the type of elements contained in the collection. The collection is covariant in its element type.\n */\n@SinceKotlin("1.1")\npublic abstract class AbstractCollection<out E> protected constructor() : Collection<E> {\n    abstract override val size: Int\n    abstract override fun iterator(): Iterator<E>\n\n    override fun contains(element: @UnsafeVariance E): Boolean = any { it == element }\n\n    override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean =\n        elements.all { contains(it) } // use when js will support bound refs: elements.all(this::contains)\n\n    override fun isEmpty(): Boolean = size == 0\n\n    override fun toString(): String =\n        joinToString(", ", "[", "]") {\n            if (it === this) "(this Collection)" else it.toString()\n        }\n\n    /**\n     * Returns new array of type Array<Any?> with the elements

```

```

of this collection.\n     */\n    @JsName("toArray")\n    protected open fun toArray(): Array<Any?> =\n        copyToArrayImpl(this)\n\n    /**\n     * Fills the provided [array] or creates new array of the same type\n     * and fills it with the elements of this collection.\n     */\n    protected open fun <T> toArray(array: Array<T>): Array<T> =\n        copyToArrayImpl(this, array)\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming

```

```

Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nprivate enum class State {\n    Ready,\n    NotReady,\n    Done,\n    Failed\n}\n\n/**\n * A base class to simplify implementing iterators so that

```

```

implementations only have to implement [computeNext]\n * to implement the iterator, calling [done] when the
iteration is complete.\n *\npublic abstract class AbstractIterator<T> : Iterator<T> {\n    private var state =
State.NotReady\n
    private var nextValue: T? = null\n\n    override fun hasNext(): Boolean {\n        require(state != State.Failed)\n        return when (state) {\n            State.Done -> false\n            State.Ready -> true\n            else ->
tryToComputeNext()\n        }\n    }\n\n    override fun next(): T {\n        if (!hasNext()) throw
NoSuchElementException()\n        state = State.NotReady\n        @Suppress(\"UNCHECKED_CAST\")\n        return nextValue as T\n    }\n\n    private fun tryToComputeNext(): Boolean {\n        state = State.Failed\n        computeNext()\n        return state == State.Ready\n    }\n\n    /**\n     * Computes the next item in the iterator.\n     *\n     * This callback method should call one of these two methods:\n     * * [setNext] with the next value of
the iteration\n     * * [done] to indicate there are no more elements\n     * * Failure to call either method will
result in the iteration terminating with a failed state\n     */\n
    abstract protected fun computeNext(): Unit\n\n    /**\n     * Sets the next value in the iteration, called from the
[computeNext] function\n     */\n    protected fun setNext(value: T): Unit {\n        nextValue = value\n        state =
State.Ready\n    }\n\n    /**\n     * Sets the state to done so that the iteration terminates.\n     */\n    protected fun
done() {\n        state = State.Done\n    }\n}\n\n\"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n/*\n * Based on GWT AbstractList\n * Copyright 2007 Google
Inc.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [List]
interface.\n * This class is intended to help implementing read-only lists so it doesn't support concurrent
modification tracking.\n * @param E the type of elements contained in the list. The
list is covariant in its element type.\n */\n\n@SinceKotlin(\"1.1\")\npublic abstract class AbstractList<out E>\nprotected constructor() : AbstractCollection<E>(), List<E> {\n    abstract override val size: Int\n    abstract override
fun get(index: Int): E\n\n    override fun iterator(): Iterator<E> = IteratorImpl()\n\n    override fun indexOf(element:
@UnsafeVariance E): Int = indexOfFirst { it == element }\n\n    override fun lastIndexOf(element:
@UnsafeVariance E): Int = indexOfLast { it == element }\n\n    override fun listIterator(): ListIterator<E> =
ListIteratorImpl(0)\n\n    override fun listIterator(index: Int): ListIterator<E> = ListIteratorImpl(index)\n\n    override fun subList(fromIndex: Int, toIndex: Int): List<E> = SubList(this, fromIndex, toIndex)\n\n    private class
SubList<out E>(private val list: AbstractList<E>, private val fromIndex: Int, toIndex: Int) : AbstractList<E>(),
RandomAccess {\n        private var _size: Int = 0\n\n        init {\n            checkRangeIndexes(fromIndex,
toIndex, list.size)\n            this._size = toIndex - fromIndex\n        }\n\n        override fun get(index: Int): E {\n            checkElementIndex(index, _size)\n            return list[fromIndex + index]\n        }\n\n        override val size: Int
get() = _size\n    }\n\n    /**\n     * Compares this list with other list instance with the ordered structural equality.\n     *\n     * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same
order.\n     */\n    override fun equals(other: Any?): Boolean {\n        if (other === this) return true\n        if (other !is
List<*>) return false\n\n        return orderedEquals(this, other)\n    }\n\n    /**\n     * Returns the hash code value for
this list.\n     */\n    override fun hashCode(): Int = orderedHashCode(this)\n\n    private open inner class IteratorImpl
: Iterator<E> {\n        /** the index of the item that will be returned on the next call to [next]`)\n
*/\n        protected var index = 0\n\n        override fun hasNext(): Boolean = index < size\n\n        override fun
next(): E {\n            if (!hasNext()) throw NoSuchElementException()\n            return get(index++)\n        }\n    }\n\n    /**\n     * Implementation of [ListIterator] for abstract lists.\n     */\n    private open inner class
ListIteratorImpl(index: Int) : IteratorImpl(), ListIterator<E> {\n        init {\n            checkPositionIndex(index,
this@AbstractList.size)\n            this.index = index\n        }\n\n        override fun hasPrevious(): Boolean = index >
0\n\n        override fun nextIndex(): Int = index\n\n        override fun previous(): E {\n            if (!hasPrevious())
throw NoSuchElementException()\n            return get(--index)\n        }\n\n        override fun previousIndex(): Int =
index - 1\n    }\n\n    internal companion object {\n        internal fun checkElementIndex(index: Int, size: Int) {\n            if (index < 0 || index

```



```

_keys!!\n    }\n\n    @kotlin.jvm.Volatile\n    private var _keys: Set<K>? = null\n\n\n    override fun toString():\n    String = entries.joinToString(", ", "\n", "\n") { toString(it) }\n\n    private fun toString(entry: Map.Entry<K, V>):\n    String = toString(entry.key) + "\n" + toString(entry.value)\n\n\n    private fun toString(o: Any?): String = if (o ===\n    this) \"(this Map)\" else o.toString()\n\n\n    /**\n     * Returns a read-only [Collection] of all values in this map.\n     *\n     * Accessing this property first time creates a values view from [entries].\n     * All subsequent accesses just\n     return the created instance.\n     */\n\n    override val values: Collection<V>\n    get() {\n        if (_values == null) {\n            _values = object : AbstractCollection<V>() {\n                override operator fun\n                contains(element: @UnsafeVariance V): Boolean = containsValue(element)\n\n                override operator fun\n                iterator(): Iterator<V> {\n                    val entryIterator = entries.iterator()\n                    return object :\n                    Iterator<V> {\n                        override fun hasNext(): Boolean = entryIterator.hasNext()\n\n                        override fun next(): V = entryIterator.next().value\n                    }\n                }\n\n                override val\n                size: Int get() = this@AbstractMap.size\n            }\n\n            return _values!!\n        }\n\n        @kotlin.jvm.Volatile\n        private var _values: Collection<V>? = null\n\n\n        private fun implFindEntry(key: K):\n        Map.Entry<K, V>? = entries.firstOrNull { it.key == key }\n\n\n        internal companion object {\n            internal fun\n            entryHashCode(e:\n            Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?: 0) xor (value?.hashCode() ?: 0) }\n\n            internal fun\n            entryToString(e: Map.Entry<*, *>): String = with(e) { \"$key=$value\" }\n\n            internal fun entryEquals(e:\n            Map.Entry<*, *>, other: Any?): Boolean {\n                if (other !is Map.Entry<*, *>) return false\n                return e.key\n                == other.key && e.value == other.value\n            }\n        }\n\n\n        /*\n         * Copyright 2010-2020 JetBrains s.r.o. and Kotlin\n         Programming Language contributors.\n         * Use of this source code is governed by the Apache 2.0 license that can be\n         found in the license/LICENSE.txt file.\n         */\n\n        package kotlin.collections\n\n\n        /**\n         * Provides a skeletal\n         implementation of the read-only [Set] interface.\n         *\n         * This class is intended to help implementing read-only sets so\n         it doesn't support concurrent modification tracking.\n         *\n         * @param E the type of elements contained in the set. The\n         set is covariant in its element type.\n         */\n\n        @SinceKotlin(\"1.1\")\n        @public\n        abstract class AbstractSet<out E> protected constructor() : AbstractCollection<E>(), Set<E> {\n            /**\n             * Compares this set with other set instance with the unordered structural equality.\n             *\n             * @return true, if [other]\n             instance is a [Set] of the same size, all elements of which are contained in this set.\n             */\n\n            override fun\n            equals(other: Any?): Boolean {\n                if (other === this) return true\n                if (other !is Set<*>) return false\n                return setEquals(this, other)\n            }\n\n            /**\n             * Returns the hash code value for this set.\n             */\n\n            override fun\n            hashCode(): Int = unorderedHashCode(this)\n\n\n            internal companion object {\n                internal fun\n                unorderedHashCode(c: Collection<*>): Int {\n                    var hashCode = 0\n                    for (element in c) {\n                        hashCode += (element?.hashCode() ?: 0)\n                    }\n                    return hashCode\n                }\n            }\n\n            internal fun\n            setEquals(c: Set<*>, other: Set<*>): Boolean {\n                if (c.size != other.size) return false\n                return c.containsAll(other)\n            }\n        }\n\n\n        /*\n         * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n         * Use of this source code is governed by the\n         Apache 2.0 license that can be found in the license/LICENSE.txt file.\n         */\n\n        package kotlin.collections\n\n\n        /**\n         * Resizable-array implementation of the deque data structure.\n         *\n         * The name deque is short for \"double ended\n         queue\" and is usually pronounced \"deck\".\n         *\n         * The collection provide methods for convenient access to the\n         both ends.\n         * It also implements [MutableList] interface and supports efficient get/set operations by index.\n         */\n\n        @SinceKotlin(\"1.4\")\n        @WasExperimental(ExperimentalStdlibApi::class)\n        @public\n        class ArrayDeque<E> :\n        AbstractMutableList<E> {\n            private var head: Int = 0\n            private var elementData: Array<Any?>\n            override\n            var size: Int = 0\n            private set\n            /**\n             * Constructs an empty deque with\n             specified [initialCapacity], or throws [IllegalArgumentException] if [initialCapacity] is negative.\n             */\n\n            public\n            constructor(initialCapacity: Int) {\n                elementData = when {\n                    initialCapacity == 0 ->\n                    emptyElementData\n                    initialCapacity > 0 -> arrayOfNulls(initialCapacity)\n                }\n                else -> throw\n                IllegalArgumentException(\"Illegal Capacity: $initialCapacity\")\n            }\n\n            /**\n             * Constructs an empty\n             deque.\n             */\n\n            public\n            constructor() {\n                elementData = emptyElementData\n            }\n\n            /**\n             * Constructs a\n             deque that contains the same elements as the specified [elements] collection in the same order.\n             */\n\n            public

```

```

constructor(elements: Collection<E>) {\n    elementData = elements.toArray()\n    size =
elementData.size\n    if (elementData.isEmpty()) elementData = emptyElementData\n    }\n\n /**\n * Ensures
that the capacity of this deque is at least equal to the specified [minCapacity].\n
*\n * If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater
capacity.\n * Otherwise, this method takes no action and simply returns.\n */\n private fun
ensureCapacity(minCapacity: Int) {\n    if (minCapacity < 0) throw IllegalStateException("Deque is too big.")
// overflow\n    if (minCapacity <= elementData.size) return\n    if (elementData === emptyElementData) {\n
    elementData = arrayOfNulls(minCapacity.coerceAtLeast(defaultMinCapacity))\n    return\n    }\n\n
val newCapacity = newCapacity(elementData.size, minCapacity)\n    copyElements(newCapacity)\n    }\n\n
/**\n * Creates a new array with the specified [newCapacity] size and copies elements in the [elementData] array
to it.\n */\n private fun copyElements(newCapacity: Int) {\n    val newElements =
arrayOfNulls<Any?>(newCapacity)\n    elementData.copyInto(newElements, 0, head, elementData.size)\n
    elementData.copyInto(newElements, elementData.size - head, 0, head)\n    head = 0\n    elementData =
newElements\n    }\n\n @kotlin.internal.InlineOnly\n private inline fun internalGet(internalIndex: Int): E {\n
@Suppress("UNCHECKED_CAST")\n    return elementData[internalIndex] as E\n    }\n\n private fun
positiveMod(index: Int): Int = if (index >= elementData.size) index - elementData.size else index\n\n private fun
negativeMod(index: Int): Int = if (index < 0) index + elementData.size else index\n\n
@kotlin.internal.InlineOnly\n private inline fun internalIndex(index: Int): Int = positiveMod(head + index)\n\n
private fun incremented(index: Int): Int = if (index == elementData.lastIndex) 0 else index + 1\n\n private fun
decremented(index: Int): Int = if (index == 0) elementData.lastIndex else index - 1\n\n override fun isEmpty():
Boolean = size == 0\n\n /**\n * Returns the first element, or throws [NoSuchElementException]
if this deque is empty.\n */\n public fun first(): E = if (isEmpty()) throw
NoSuchElementException("ArrayDeque is empty.") else internalGet(head)\n\n /**\n * Returns the first
element, or `null` if this deque is empty.\n */\n public fun firstOrNull(): E? = if (isEmpty()) null else
internalGet(head)\n\n /**\n * Returns the last element, or throws [NoSuchElementException] if this deque is
empty.\n */\n public fun last(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")
else internalGet(internalIndex(lastIndex))\n\n /**\n * Returns the last element, or `null` if this deque is empty.\n
*/\n public fun lastOrNull(): E? = if (isEmpty()) null else internalGet(internalIndex(lastIndex))\n\n /**\n
* Prepends the specified [element] to this deque.\n */\n public fun addFirst(element: E) {\n
ensureCapacity(size + 1)\n    head = decremented(head)\n    elementData[head] = element\n
size += 1\n    }\n\n /**\n * Appends the specified [element] to this deque.\n */\n public fun
addLast(element: E) {\n    ensureCapacity(size + 1)\n    elementData[internalIndex(size)] = element\n
size += 1\n    }\n\n /**\n * Removes the first element from this deque and returns that removed element, or
throws [NoSuchElementException] if this deque is empty.\n */\n public fun removeFirst(): E {\n    if
(isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")\n    val element = internalGet(head)\n
    elementData[head] = null\n    head = incremented(head)\n    size -= 1\n    return element\n    }\n\n /**\n
* Removes the first element from this deque and returns that removed element, or returns `null` if this deque is
empty.\n */\n public fun removeFirstOrNull(): E? = if (isEmpty()) null else removeFirst()\n\n /**\n
* Removes the last element from this deque and returns that removed element,
or throws [NoSuchElementException] if this deque is empty.\n */\n public fun removeLast(): E {\n    if
(isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")\n    val internalLastIndex =
internalIndex(lastIndex)\n    val element = internalGet(internalLastIndex)\n    elementData[internalLastIndex] =
null\n    size -= 1\n    return element\n    }\n\n /**\n * Removes the last element from this deque and returns
that removed element, or returns `null` if this deque is empty.\n */\n public fun removeLastOrNull(): E? = if
(isEmpty()) null else removeLast()\n\n // MutableList, MutableCollection\n public override fun add(element: E):
Boolean {\n    addLast(element)\n    return true\n    }\n\n public override fun add(index: Int, element: E) {\n
AbstractList.checkPositionIndex(index, size)\n    if (index == size) {\n        addLast(element)\n
return\n    } else if (index == 0) {\n

```

```

    addFirst(element)\n        return\n    }\n\n    ensureCapacity(size + 1)\n\n    // Elements in circular array
lay in 2 ways:\n    // 1. `head` is less than `tail`:    [#, #, e1, e2, e3, #]\n    // 2. `head` is greater than `tail`:\n[e3, #, #, #, e1, e2]\n    // where head is the index of the first element in the circular array,\n    // and tail is the
index following the last element.\n    //^\n    // At this point the insertion index is not equal to head or tail.\n
// Also the circular array can store at least one more element.\n    //^\n    // Depending on where the given
element must be inserted the preceding or the succeeding\n    // elements will be shifted to make room for the
element to be inserted.\n    //^\n    // In case the preceding elements are shifted:\n    // * if the insertion index
is greater than the head (regardless of circular array form)\n    // -> shift the preceding elements\n
    // * otherwise, the circular array has (2) form and the insertion index is less than tail\n    // -> shift all
elements in the back of the array\n    // -> shift preceding elements in the front of the array\n    // In case the
succeeding elements are shifted:\n    // * if the insertion index is less than the tail (regardless of circular array
form)\n    // -> shift the succeeding elements\n    // * otherwise, the circular array has (2) form and the
insertion index is greater than head\n    // -> shift all elements in the front of the array\n    // -> shift
succeeding elements in the back of the array\n\n    val internalIndex = internalIndex(index)\n\n    if (index <
(size + 1) shr 1) {\n        // closer to the first element -> shift preceding elements\n        val
decrementedInternalIndex = decremented(internalIndex)\n        val decrementedHead = decremented(head)\n\n    if (decrementedInternalIndex
>= head) {\n        elementData[decrementedHead] = elementData[head] // head can be zero\n
elementData.copyInto(elementData, head, head + 1, decrementedInternalIndex + 1)\n        } else { // head > tail\n
    elementData.copyInto(elementData, head - 1, head, elementData.size) // head can't be zero\n
elementData[elementData.size - 1] = elementData[0]\n        elementData.copyInto(elementData, 0, 1,
decrementedInternalIndex + 1)\n        }\n\n        elementData[decrementedInternalIndex] = element\n
head = decrementedHead\n    } else {\n        // closer to the last element -> shift succeeding elements\n
val tail = internalIndex(size)\n        if (internalIndex < tail) {\n            elementData.copyInto(elementData,
internalIndex + 1, internalIndex, tail)\n        } else { // head > tail\n            elementData.copyInto(elementData,
1, 0, tail)\n
            elementData[0] = elementData[elementData.size - 1]\n            elementData.copyInto(elementData,
internalIndex + 1, internalIndex, elementData.size - 1)\n        }\n        elementData[internalIndex] = element\n
    }\n    size += 1\n    }\n\n    private fun copyCollectionElements(internalIndex: Int, elements: Collection<E>)\n
{\n    val iterator = elements.iterator()\n\n    for (index in internalIndex until elementData.size) {\n        if
(!iterator.hasNext()) break\n        elementData[index] = iterator.next()\n    }\n    for (index in 0 until head) {\n
        if (!iterator.hasNext()) break\n        elementData[index] = iterator.next()\n    }\n\n    size +=
elements.size\n    }\n\n    public override fun addAll(elements: Collection<E>): Boolean {\n    if
(elements.isEmpty()) return false\n    ensureCapacity(this.size + elements.size)\n
copyCollectionElements(internalIndex(size), elements)\n
    return true\n    }\n\n    public override fun addAll(index: Int, elements: Collection<E>): Boolean {\n
AbstractList.checkPositionIndex(index, size)\n\n    if (elements.isEmpty()) {\n        return false\n    } else if
(index == size) {\n        return addAll(elements)\n    }\n\n    ensureCapacity(this.size + elements.size)\n\n
val tail = internalIndex(size)\n    val internalIndex = internalIndex(index)\n    val elementsSize =
elements.size\n\n    if (index < (size + 1) shr 1) {\n        // closer to the first element -> shift preceding
elements\n\n        var shiftedHead = head - elementsSize\n\n        if (internalIndex >= head) {\n            if
(shiftedHead >= 0) {\n                elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n
            } else { // head < tail, insertion leads to head >= tail\n                shiftedHead += elementData.size\n                val
elementsToShift
= internalIndex - head\n                val shiftToBack = elementData.size - shiftedHead\n\n                if
(shiftToBack >= elementsToShift) {\n                    elementData.copyInto(elementData, shiftedHead, head,
internalIndex)\n                } else {\n                    elementData.copyInto(elementData, shiftedHead, head, head +
shiftToBack)\n                    elementData.copyInto(elementData, 0, head + shiftToBack, internalIndex)\n

```



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= null\n      head = incremented(head)\n      } else {\n          // closer to the last element -> shift succeeding
elements\n      val internalLastIndex
= internalIndex(lastIndex)\n      if (internalIndex <= internalLastIndex) {\n
elementData.copyInto(elementData, internalIndex, internalIndex + 1, internalLastIndex + 1)\n      } else { // head
> tail, internalIndex > head\n      elementData.copyInto(elementData, internalIndex, internalIndex + 1,
elementData.size)\n      elementData[elementData.size - 1] = elementData[0]\n
elementData.copyInto(elementData, 0, 1, internalLastIndex + 1)\n      }\n\n
elementData[internalLastIndex] = null\n      }\n      size -= 1\n      return element\n      }\n\n public override fun
removeAll(elements: Collection<E>): Boolean = filterInPlace { !elements.contains(it) }\n\n public override fun
retainAll(elements: Collection<E>): Boolean = filterInPlace { elements.contains(it) }\n\n private inline fun
filterInPlace(predicate: (E) -> Boolean): Boolean {\n      if (this.isEmpty() || elementData.isEmpty())\n
return false\n      val tail = internalIndex(size)\n      var newTail = head\n      var modified = false\n      if (head < tail) {\n          for (index in head until tail) {\n              val element = elementData[index]\n
@Suppress(\"UNCHECKED_CAST\")\n              if (predicate(element as E))\n
elementData[newTail++] = element\n              else\n                  modified = true\n              }\n\n
elementData.fill(null, newTail, tail)\n      } else {\n          for (index in head until elementData.size) {\n
val element = elementData[index]\n              elementData[index] = null\n
@Suppress(\"UNCHECKED_CAST\")\n              if (predicate(element as E))\n
elementData[newTail++] = element\n              else\n                  modified = true\n              }\n\n
newTail =
positiveMod(newTail)\n          for (index in 0 until
tail) {\n              val element = elementData[index]\n                  elementData[index] = null\n
@Suppress(\"UNCHECKED_CAST\")\n                  if (predicate(element as E)) {\n
elementData[newTail] = element\n                      newTail = incremented(newTail)\n                      } else {\n
modified = true\n                      }\n              }\n          if (modified)\n              size = negativeMod(newTail -
head)\n          return modified\n      }\n\n public override fun clear() {\n      val tail = internalIndex(size)\n      if
(head < tail) {\n          elementData.fill(null, head, tail)\n      } else if (isEmpty()) {\n
elementData.fill(null, head, elementData.size)\n          elementData.fill(null, 0, tail)\n      }\n      head = 0\n
size = 0\n      }\n\n internal companion object {\n      private val emptyElementData = emptyArray<Any?>()\n
private const val maxArraySize
= Int.MAX_VALUE - 8\n      private const val defaultMinCapacity = 10\n      internal fun
newCapacity(oldCapacity: Int, minCapacity: Int): Int {\n          // overflow-conscious\n          var newCapacity =
oldCapacity + (oldCapacity shr 1)\n          if (newCapacity - minCapacity < 0)\n              newCapacity =
minCapacity\n          if (newCapacity - maxArraySize > 0)\n              newCapacity = if (minCapacity >
maxArraySize) Int.MAX_VALUE else maxArraySize\n          return newCapacity\n      }\n      }\n\n // For testing
only\n      internal fun internalStructure(structure: (head: Int, elements: Array<Any?>) -> Unit) {\n          val tail =
internalIndex(size)\n          if (isEmpty()) {\n              structure(head, emptyArray())\n              return\n          }\n
val elements = arrayOfNulls<Any?>(size)\n          if (head < tail) {\n              elementData.copyInto(elements,
startIndex = head, endIndex = tail)\n              structure(head, elements)\n          } else {\n              elementData.copyInto(elements, startIndex = head)\n              elementData.copyInto(elements,
elementData.size - head, startIndex = 0, endIndex = tail)\n              structure(head - elementData.size, elements)\n
}\n      }\n\n },\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n @file:kotlin.jvm.JvmMultifileClass\n @file:kotlin.jvm.JvmName(\"ArraysKt\")\n\n\npackage
kotlin.collections\n\nimport kotlin.contracts.*\n\n\n/**\n * Returns a single list of all elements from all arrays in the
given array.\n * @sample samples.collections.Arrays.Transformations.flattenArray\n */\n\npublic fun <T> Array<out
Array<out T>>.flatten(): List<T> {\n      val result = ArrayList<T>(sumBy { it.size })\n      for (element in this) {\n
result.addAll(element)\n      }\n      return result\n      }\n\n\n\n/**\n * Returns a pair of

```

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lists, where\n * *first* list is built from the first values of each pair from this array,\n * *second* list is built from
the second values of each pair from this array.\n * @sample
samples.collections.Arrays.Transformations.unzipArray\n *^\npublic fun <T, R> Array<out Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n    val listT = ArrayList<T>(size)\n    val listR = ArrayList<R>(size)\n    for (pair in
this) {\n        listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return listT to listR\n}\n\n/**\n * Returns
`true` if this nullable array is either null or empty.\n * @sample
samples.collections.Arrays.Usage.arrayIsNullOrEmpty\n
*^\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun Array<*>?.isNullOrEmpty(): Boolean
{\n    contract {\n        returns(false) implies (this@isNullOrEmpty != null)\n    }\n    return this == null ||
this.isEmpty()\n}\n\n/**\n * Returns this array if it's not empty\n * or the result of calling [defaultValue] function if
the array is empty.\n * @sample samples.collections.Arrays.Usage.arrayIfEmpty\n
*^\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("UPPER_BOUND_CANNOT_BE_ARRAY")\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =\n    if (isEmpty())
defaultValue() else
this\n\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.Jvm
Name("contentDeepEquals")\n@kotlin.js.JsName("contentDeepEqualsImpl")\ninternal fun <T> Array<out
T>?.contentDeepEqualsImpl(other: Array<out T>?): Boolean {\n    if (this === other) return true\n    if (this == null
|| other == null || this.size != other.size) return false\n    for (i in indices) {\n        val v1 = this[i]\n        val v2 =
other[i]\n        if (v1 === v2) {\n            continue\n        } else if (v1 == null || v2 == null) {\n            return false\n
        }\n        when {\n            v1 is Array<*> && v2 is Array<*> -> if (!v1.contentDeepEquals(v2))
return false\n            v1 is ByteArray && v2 is ByteArray -> if (!v1.contentEquals(v2)) return false\n            v1
is ShortArray && v2 is ShortArray -> if (!v1.contentEquals(v2)) return false\n            v1 is IntArray && v2 is
IntArray -> if (!v1.contentEquals(v2)) return false\n            v1 is LongArray && v2 is LongArray -> if
(!v1.contentEquals(v2)) return false\n            v1 is FloatArray && v2 is FloatArray -> if (!v1.contentEquals(v2))
return false\n            v1 is DoubleArray && v2 is DoubleArray -> if (!v1.contentEquals(v2)) return false\n
            v1 is CharArray && v2 is CharArray -> if (!v1.contentEquals(v2)) return false\n            v1 is BooleanArray &&
v2 is BooleanArray -> if (!v1.contentEquals(v2)) return false\n            v1 is UByteArray && v2 is UByteArray
-> if (!v1.contentEquals(v2)) return false\n            v1 is UShortArray && v2 is UShortArray -> if
(!v1.contentEquals(v2)) return false\n            v1 is UIntArray && v2 is UIntArray -> if (!v1.contentEquals(v2)) return false\n
            v1 is ULongArray && v2 is ULongArray -> if (!v1.contentEquals(v2)) return false\n            else -> if (v1 != v2)
return false\n        }\n    }\n    return
true\n}\n\n\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.JvmName("contentDeepToString")\n@kotlin.js.
JsName("contentDeepToStringImpl")\ninternal fun <T> Array<out T>?.contentDeepToStringImpl(): String {\n    if (this == null) return "null"\n    val length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not
to overflow Int.MAX_VALUE\n    return buildString(length) {\n        contentDeepToStringInternal(this,
mutableListOf())\n    }\n}\n\n\n@OptIn(ExperimentalUnsignedTypes::class)\nprivate fun <T> Array<out
T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {\n    if (this in
processed) {\n        result.append("[...]")\n        return\n    }\n    processed.add(this)\n    result.append("[")\n    for (i in indices) {\n        if (i != 0) {\n            result.append(", ")\n        }\n        val
element = this[i]\n        when (element) {\n            null -> result.append("null")\n            is Array<*> ->
element.contentDeepToStringInternal(result, processed)\n            is ByteArray ->
result.append(element.contentToString())\n            is ShortArray -> result.append(element.contentToString())\n
            is IntArray -> result.append(element.contentToString())\n            is LongArray ->
result.append(element.contentToString())\n            is FloatArray -> result.append(element.contentToString())\n
            is DoubleArray -> result.append(element.contentToString())\n            is CharArray ->
result.append(element.contentToString())\n            is BooleanArray -> result.append(element.contentToString())\n
            is UByteArray -> result.append(element.contentToString())\n

```

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        is UShortArray -> result.append(element.contentToString())\n        is UIntArray ->
result.append(element.contentToString())\n        is ULongArray -> result.append(element.contentToString())\n
        else -> result.append(element.toString())\n    }\n }\n\n result.append('')\n
processed.removeAt(processed.lastIndex)\n}", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Data class representing a value from a
collection or sequence, along with its index in that collection or sequence.\n *\n * @property value the underlying
value.\n *\n * @property index the index of the value in the collection or sequence.\n */\n\npublic data class
IndexedValue<out T>(public val index: Int, public val value: T)\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("MapAccessorsKt")\n\npackage kotlin.collections\n\nimport
kotlin.reflect.KProperty\nimport kotlin.internal.Exact\n\n/**\n * Returns the value of the property for the given
object from this read-only map.\n *\n * @param thisRef the object for which the value is requested (not used).\n *\n
* @param property the metadata for the property, used to get the name of property and lookup the value
corresponding to this name in the map.\n *\n * @return the property value.\n *\n * @throws NoSuchElementException
when the map doesn't contain value for the property name and doesn't provide an implicit default (see
[withDefault]).\n */\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> Map<in String, @Exact
V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\n    @Suppress("UNCHECKED_CAST")
(getOrImplicitDefault(property.name) as V1)\n\n/**\n * Returns the value of the property for the given object from
this mutable map.\n *\n * @param thisRef the object for which the value is requested (not used).\n *\n * @param property
the metadata for the property, used to get the name of property and lookup the value corresponding to this name in
the map.\n *\n * @return the property value.\n *\n * @throws NoSuchElementException when the map doesn't contain
value for the property name and doesn't provide an implicit default (see [withDefault]).\n */\n\n@kotlin.jvm.JvmName("getVar")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V>
MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\n
    @Suppress("UNCHECKED_CAST") (getOrImplicitDefault(property.name) as V1)\n\n/**\n * Stores the value of
the property for the given object in this mutable map.\n *\n * @param thisRef the object for which the value is
requested (not used).\n *\n * @param property
the metadata for the property, used to get the name of property and store the value associated with that name in the
map.\n *\n * @param value the value to set.\n */\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <V>
MutableMap<in String, in V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n
this.put(property.name, value)\n}\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n\npackage
kotlin.collections\n\n/**\n * Returns the value for the given key, or the implicit default value for this map.\n * By
default no implicit value is provided for maps and a [NoSuchElementException] is thrown.\n * To create a map with
implicit default value use [withDefault] method.\n *\n * @throws NoSuchElementException when the map doesn't
contain
a value for the specified key and no implicit default was provided for that map.\n */\n\n@kotlin.jvm.JvmName("getOrImplicitDefaultNullable")\n@PublishedApi\ninternal fun <K, V> Map<K,
V>.getOrImplicitDefault(key: K): V {\n    if (this is MapWithDefault)\n        return
this.getOrImplicitDefault(key)\n    return getOrElseNullable(key, { throw NoSuchElementException("Key $key
is missing in the map.") })\n}\n\n/**\n * Returns a wrapper of this read-only map, having the implicit default value
provided with the specified function [defaultValue].\n *\n * This implicit default value is used when the original
map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function, for
example when properties are delegated to the map.\n *\n * When this map already has an implicit default value

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provided with a former call to [withDefault], it is being replaced by this call.
public fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =
    when (this) {
        is MapWithDefault -> this.map.withDefault(defaultValue)
        else -> MapWithDefaultImpl(this, defaultValue)
    }
}

/**
 * Returns a wrapper of this mutable map, having the implicit default value provided with the specified function [defaultValue].
 * This implicit default value is used when the original map doesn't contain a value for the key specified and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.
 * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.
 */
@kotlin.jvm.JvmName("withDefaultMutable")
public fun <K, V> MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =
    when (this) {
        is MutableMapWithDefault -> this.map.withDefault(defaultValue)
        else -> MutableMapWithDefaultImpl(this, defaultValue)
    }
}

private interface MapWithDefault<K, out V> : Map<K, V> {
    public val map: Map<K, V>
    public fun getOrImplicitDefault(key: K): V
}

private interface MutableMapWithDefault<K, V> : MutableMap<K, V>, MapWithDefault<K, V> {
    public override val map: MutableMap<K, V>
}

private class MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default: (key: K) -> V) : MapWithDefault<K, V> {
    override fun equals(other: Any?): Boolean = map.equals(other)
    override fun hashCode(): Int = map.hashCode()
    override fun toString(): String = map.toString()
    override val size: Int get() = map.size
    override fun isEmpty(): Boolean = map.isEmpty()
    override fun containsKey(key: K): Boolean = map.containsKey(key)
    override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)
    override fun get(key: K): V? = map.get(key)
    override val keys: Set<K> get() = map.keys
    override val values: Collection<V> get() = map.values
    override val entries: Set<Map.Entry<K, V>> get() = map.entries

    override fun getOrImplicitDefault(key: K): V = map.getOrNull(key, { default(key) })
}

private class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K, V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {
    override fun equals(other: Any?): Boolean = map.equals(other)
    override fun hashCode(): Int = map.hashCode()
    override fun toString(): String = map.toString()
    override val size: Int get() = map.size
    override fun isEmpty(): Boolean = map.isEmpty()
    override fun containsKey(key: K): Boolean = map.containsKey(key)
    override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)
    override fun get(key: K): V? = map.get(key)
    override val keys: MutableSet<K> get() = map.keys
    override val values: MutableCollection<V> get() = map.values
    override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries

    override fun put(key: K, value: V): V? = map.put(key, value)
    override fun remove(key: K): V? = map.remove(key)
    override fun putAll(from: Map<out K, V>) = map.putAll(from)
    override fun clear() = map.clear()
    override fun getOrImplicitDefault(key: K): V = map.getOrNull(key, { default(key) })
}

/**
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")
package kotlin.collections
import kotlin.random.Random

/**
 * Removes a single instance of the specified element from this collection, if it is present.
 * Allows to overcome type-safety restriction of `remove` that requires to pass an element of type `E`.
 * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.
 */
@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.remove(element: T): Boolean =
    @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).remove(element)

/**
 * Removes all of this collection's elements that are also contained in the specified collection.
 * Allows to overcome type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`.
 * @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.
 */
@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out

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T>.removeAll(elements: Collection<T>): Boolean =\n    @Suppress("UNCHECKED_CAST") (this as
MutableCollection<T>).removeAll(elements)\n\n/**\n * Retains only the elements in this collection that are
contained in the specified collection.\n *\n * Allows to overcome type-safety
restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.\n *\n * @return `true` if any
element was removed from the collection, `false` if the collection was not modified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out
T>.retainAll(elements: Collection<T>): Boolean =\n    @Suppress("UNCHECKED_CAST") (this as
MutableCollection<T>).retainAll(elements)\n\n/**\n * Adds the specified [element] to this mutable collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(element: T)
{\n    this.add(element)\n}\n\n/**\n * Adds all elements of the given [elements] collection to this mutable
collection.\n *\n * @kotl.in.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in
T>.plusAssign(elements: Iterable<T>) {\n    this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given
[elements] array to this mutable collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements:
Array<T>) {\n    this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] sequence to this
mutable collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in
T>.plusAssign(elements: Sequence<T>) {\n    this.addAll(elements)\n}\n\n/**\n * Removes a single instance of the
specified [element] from this mutable collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
MutableCollection<in T>.minusAssign(element: T) {\n    this.remove(element)\n}\n\n/**\n * Removes all elements
contained in the given [elements] collection from this mutable collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements:
Iterable<T>) {\n    this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements] array from this
mutable collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements:
Array<T>) {\n    this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements]
sequence from this mutable collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
MutableCollection<in T>.minusAssign(elements: Sequence<T>) {\n    this.removeAll(elements)\n}\n\n/**\n * Adds
all elements of the given [elements] collection to this [MutableCollection].\n
*/\npublic fun <T>
MutableCollection<in T>.addAll(elements: Iterable<T>): Boolean {\n    when (elements) {\n        is Collection ->
return addAll(elements)\n        else -> {\n            var result: Boolean = false\n            for (item in elements)\n                if (add(item)) result = true\n            return result\n        }\n    }\n}\n\n/**\n * Adds all elements of the given
[elements] sequence to this [MutableCollection].\n
*/\npublic fun <T> MutableCollection<in
T>.addAll(elements: Sequence<T>): Boolean {\n    var result: Boolean = false\n    for (item in elements) {\n        if
(add(item)) result = true\n    }\n    return result\n}\n\n/**\n * Adds all elements of the given [elements] array to this
[MutableCollection].\n
*/\npublic fun <T> MutableCollection<in T>.addAll(elements: Array<out T>): Boolean {\n    return
addAll(elements.asList())\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also
contained in the given [elements] collection.\n
*/\npublic fun <T> MutableCollection<in T>.removeAll(elements:
Iterable<T>): Boolean {\n    return removeAll(elements.convertToSetForSetOperationWith(this))\n}\n\n/**\n * Removes
all elements from this [MutableCollection] that are also contained in the given [elements] sequence.\n
*/\npublic fun <T> MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {\n    val set =
elements.toHashSet()\n    return set.isNotEmpty() && removeAll(set)\n}\n\n/**\n * Removes all elements
from this [MutableCollection] that are also contained in the given [elements] array.\n
*/\npublic fun <T>
MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean {\n    return elements.isNotEmpty() &&
removeAll(elements.toHashSet())\n}\n\n/**\n * Retains only elements of this [MutableCollection] that are contained
in the given [elements] collection.\n
*/\npublic fun <T> MutableCollection<in T>.retainAll(elements: Iterable<T>):
Boolean {\n    return retainAll(elements.convertToSetForSetOperationWith(this))\n}\n\n/**\n * Retains only
elements of this [MutableCollection] that are contained in the given [elements] array.\n
*/\npublic fun <T>
MutableCollection<in T>.retainAll(elements: Array<out T>): Boolean {\n    if (elements.isNotEmpty())\n        return

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retainAll(elements.toHashSet())\n else\n     return retainNothing()\n}\n\n/**\n * Retains only elements of this
[MutableCollection] that are contained in the given [elements] sequence.\n */\npublic fun <T>
MutableCollection<in
T>.retainAll(elements: Sequence<T>): Boolean {\n     val set = elements.toHashSet()\n     if (set.isNotEmpty())\n return retainAll(set)\n else\n     return retainNothing()\n}\n\nprivate fun MutableCollection<*>.retainNothing():
Boolean {\n     val result = isEmpty()\n     clear()\n     return result\n}\n\n/**\n * Removes all elements from this
[MutableIterable] that match the given [predicate].\n */\n * @return `true` if any element was removed from this
collection, or `false` when no elements were removed and collection was not modified.\n */\npublic fun <T>
MutableIterable<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)\n\n/**\n * Retains only elements of this [MutableIterable] that match the given [predicate].\n */\n * @return `true` if any
element was removed from this collection, or `false` when all elements were retained and collection was not
modified.\n */\npublic fun <T> MutableIterable<T>.retainAll(predicate: (T) -> Boolean):
Boolean = filterInPlace(predicate, false)\n\nprivate fun <T> MutableIterable<T>.filterInPlace(predicate: (T) ->
Boolean, predicateResultToRemove: Boolean): Boolean {\n     var result = false\n     with(iterator()) {\n         while
(hasNext())\n             if (predicate(next()) == predicateResultToRemove) {\n                 remove()\n                 result =
true\n             }\n     }\n     return result\n}\n\n/**\n * Removes the element at the specified [index] from this list.\n */\n * In Kotlin one should use the [MutableList.removeAt] function instead.\n */\n * @Deprecated("Use removeAt(index)
instead.", ReplaceWith("removeAt(index)"), level =
DeprecationLevel.ERROR)\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> MutableList<T>.remove(index:
Int): T = removeAt(index)\n\n/**\n * Removes the first element from this mutable list and returns that removed
element, or throws [NoSuchElementException] if this list is empty.\n */\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\n\npublic
fun <T> MutableList<T>.removeFirst(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else
removeAt(0)\n\n/**\n * Removes the first element from this mutable list and returns that removed element, or
returns `null` if this list is empty.\n */\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\n\npublic fun <T>
MutableList<T>.removeFirstOrNull(): T? = if (isEmpty()) null else removeAt(0)\n\n/**\n * Removes the last
element from this mutable list and returns that removed element, or throws [NoSuchElementException] if this list is
empty.\n */\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\n\npublic fun <T>
MutableList<T>.removeLast(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else
removeAt(lastIndex)\n\n/**\n * Removes the last element from this mutable list and returns that removed element,
or returns `null` if this list is empty.\n */\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\n\npublic
fun <T> MutableList<T>.removeLastOrNull(): T? = if (isEmpty()) null else removeAt(lastIndex)\n\n/**\n * Removes all elements from this [MutableList] that match the given [predicate].\n */\n * @return `true` if any element
was removed from this collection, or `false` when no elements were removed and collection was not modified.\n */\n\npublic fun <T> MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate,
true)\n\n/**\n * Retains only elements of this [MutableList] that match the given [predicate].\n */\n * @return `true`
if any element was removed from this collection, or `false` when all elements were retained and collection was not
modified.\n */\n\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean =
filterInPlace(predicate, false)\n\nprivate fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean,
predicateResultToRemove: Boolean): Boolean {\n     if (this is RandomAccess)\n         return
(this as MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)\n     var writeIndex: Int = 0\n     for (readIndex in 0..lastIndex) {\n         val element = this[readIndex]\n         if (predicate(element) ==
predicateResultToRemove)\n             continue\n         if (writeIndex != readIndex)\n             this[writeIndex] =
element\n         writeIndex++\n     }\n     if (writeIndex < size) {\n         for (removeIndex in lastIndex downTo
writeIndex)\n             removeAt(removeIndex)\n         return true\n     } else {\n         return false\n     }\n}\n\n", "/*\n *
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governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\nprivate open class ReversedListReadOnly<out T>(private val delegate: List<T>) :
AbstractList<T>()\n
{\n  override val size: Int get() = delegate.size\n  override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n}\n\nprivate class ReversedList<T>(private val delegate: MutableList<T>) :
AbstractMutableList<T>() {\n  override val size: Int get() = delegate.size\n  override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n\n  override fun clear() = delegate.clear()\n  override fun removeAt(index:
Int): T = delegate.removeAt(reverseElementIndex(index))\n\n  override fun set(index: Int, element: T): T =
delegate.set(reverseElementIndex(index), element)\n  override fun add(index: Int, element: T) {\n
delegate.add(reversePositionIndex(index), element)\n  }\n}\n\nprivate fun List<*>.reverseElementIndex(index:
Int) =\n  if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException("Element index
$index must be in range [{0..lastIndex}].")\n\nprivate fun List<*>.reversePositionIndex(index: Int) =\n  if (index
in
0..size) size - index else throw IndexOutOfBoundsException("Position index $index must be in range
[{0..size}].")\n\n/**\n * Returns a reversed read-only view of the original List.\n * All changes made in the
original list will be reflected in the reversed one.\n * @sample samples.collections.ReversedViews.asReversedList\n
*\npublic fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)\n\n/**\n * Returns a reversed
mutable view of the original mutable List.\n * All changes made in the original list will be reflected in the reversed
one and vice versa.\n * @sample samples.collections.ReversedViews.asReversedMutableList\n
*\n@kotlin.jvm.JvmName("asReversedMutable")\npublic fun <T> MutableList<T>.asReversed():
MutableList<T> = ReversedList(this)\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n@file:OptIn(Experimenta
lTypeInference::class)\n\npackage
kotlin.sequences\n\nimport kotlin.coroutines.*\nimport kotlin.coroutines.intrinsics.*\nimport
kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Builds a [Sequence] lazily yielding values one by one.\n
*\n * @see kotlin.sequences.generateSequence\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n *\n@SinceKotlin("1.3")\npublic fun <T>
sequence(@BuilderInference block: suspend SequenceScope<T>().() -> Unit): Sequence<T> = Sequence {
iterator(block) }\n\n@SinceKotlin("1.3")\n@Deprecated("Use 'sequence { }' function instead.",
ReplaceWith("sequence(builderAction)"), level =
DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline fun <T> buildSequence(@BuilderInference
noinline builderAction: suspend SequenceScope<T>().() -> Unit): Sequence<T>
= Sequence { iterator(builderAction) }\n\n/**\n * Builds an [Iterator] lazily yielding values one by one.\n *
*\n * @sample samples.collections.Sequences.Building.buildIterator\n * @sample
samples.collections.Iterables.Building.iterable\n *\n@SinceKotlin("1.3")\npublic fun <T>
iterator(@BuilderInference block: suspend SequenceScope<T>().() -> Unit): Iterator<T> {\n  val iterator =
SequenceBuilderIterator<T>()\n  iterator.nextStep = block.createCoroutineUnintercepted(receiver = iterator,
completion = iterator)\n  return iterator\n}\n\n@SinceKotlin("1.3")\n@Deprecated("Use 'iterator { }' function
instead.", ReplaceWith("iterator(builderAction)"), level =
DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline fun <T> buildIterator(@BuilderInference
noinline builderAction: suspend SequenceScope<T>().() -> Unit): Iterator<T> = iterator(builderAction)\n\n/**\n *
The scope for yielding values of a [Sequence] or an [Iterator], provides [yield] and [yieldAll] suspension
functions.\n * @see sequence\n * @see iterator\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample

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samples.collections.Sequences.Building.buildFibonacciSequence\n
*\n@RestrictsSuspension\n@SinceKotlin(1.3)\npublic abstract class SequenceScope<in T> internal
constructor() {\n /**\n * Yields a value to the [Iterator] being built and suspends\n * until the next value is
requested.\n *\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n */\n public abstract suspend fun yield(value:
T)\n\n /**\n * Yields all values from the `iterator` to the [Iterator] being built\n * and suspends until all these
values are iterated and the next one is requested.\n *\n * The sequence of values returned by the given iterator
can be potentially infinite.\n *\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n
*/\n public abstract suspend fun yieldAll(iterator: Iterator<T>)\n\n /**\n * Yields a collections of values to
the [Iterator] being built\n * and suspends until all these values are iterated and the next one is requested.\n
*\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n */\n public suspend fun
yieldAll(elements: Iterable<T>) {\n if (elements is Collection && elements.isEmpty()) return\n return
yieldAll(elements.iterator())\n }\n\n /**\n * Yields potentially infinite sequence of values to the [Iterator]
being built\n * and suspends until all these values are iterated and the next one is requested.\n *\n * The
sequence can be potentially infinite.\n *\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n */\n public suspend fun yieldAll(sequence:
Sequence<T>) = yieldAll(sequence.iterator())\n\n\n@Deprecated("Use SequenceScope
class instead.", ReplaceWith("SequenceScope<T>"), level = DeprecationLevel.ERROR)\npublic typealias
SequenceBuilder<T> = SequenceScope<T>\n\nprivate typealias State = Int\n\nprivate const val State_NotReady:
State = 0\nprivate const val State_ManyNotReady: State = 1\nprivate const val State_ManyReady: State =
2\nprivate const val State_Ready: State = 3\nprivate const val State_Done: State = 4\nprivate const val State_Failed:
State = 5\n\nprivate class SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {\n
private var state = State_NotReady\n private var nextValue: T? = null\n private var nextIterator: Iterator<T>? =
null\n var nextStep: Continuation<Unit>? = null\n\n override fun hasNext(): Boolean {\n while (true) {\n
when (state) {\n State_NotReady -> {}\n State_ManyNotReady ->\n if
(nextIterator!!.hasNext()) {\n state = State_ManyReady\n
return true\n } else {\n nextIterator = null\n } State_Done
-> return false\n State_Ready, State_ManyReady -> return true\n else -> throw
exceptionalState()\n }\n\n state = State_Failed\n val step = nextStep!!\n nextStep = null\n
step.resume(Unit)\n }\n }\n\n override fun next(): T {\n when (state) {\n State_NotReady,
State_ManyNotReady -> return nextNotReady()\n State_ManyReady -> {\n state =
State_ManyNotReady\n return nextIterator!!.next()\n }\n State_Ready -> {\n state =
State_NotReady\n @Suppress("UNCHECKED_CAST")\n val result = nextValue as T\n
nextValue = null\n return result\n }\n else -> throw exceptionalState()\n
}\n }\n\n private fun nextNotReady(): T {\n if (!hasNext()) throw NoSuchElementException() else
return next()\n }\n\n private fun exceptionalState(): Throwable = when (state) {\n State_Done ->
NoSuchElementException()\n State_Failed -> IllegalStateException("Iterator has failed.")\n else ->
IllegalStateException("Unexpected state of the iterator: $state")\n }\n\n\n override suspend fun yield(value: T)
{\n nextValue = value\n state = State_Ready\n return suspendCoroutineUninterceptedOrReturn { c ->\n
nextStep = c\n COROUTINE_SUSPENDED\n }\n }\n\n\n override suspend fun
yieldAll(iterator: Iterator<T>) {\n if (!iterator.hasNext()) return\n nextIterator = iterator\n state =
State_ManyReady\n return suspendCoroutineUninterceptedOrReturn { c ->\n nextStep = c\n
COROUTINE_SUSPENDED\n }\n }\n\n\n // Completion continuation
implementation\n override fun resumeWith(result: Result<Unit>) {\n result.getOrThrow() // just rethrow
exception if it is there\n state = State_Done\n }\n\n\n override val context: CoroutineContext\n get() =
EmptyCoroutineContext\n }\n\n\n /**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n\npackage kotlin.collections\n\ninternal fun checkWindowSizeStep(size: Int, step:

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Int) {\n  require(size > 0 && step > 0) {\n    if (size != step)\n      \"Both size $size and step $step must be  
greater than zero.\"\n    else\n      \"size $size must be greater than zero.\"\n  }\n}\n\ninternal fun <T>  
Sequence<T>.windowedSequence(size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean):  
Sequence<List<T>> {\n  checkWindowSizeStep(size, step)\n  return Sequence { windowedIterator(iterator(),  
size, step, partialWindows, reuseBuffer) }\n}\n\ninternal fun <T> windowedIterator(iterator: Iterator<T>, size: Int,  
step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Iterator<List<T>> {\n  if (!iterator.hasNext()) return  
EmptyIterator\n  return iterator<List<T>> {\n    val bufferInitialCapacity = size.coerceAtMost(1024)\n    val  
gap = step - size\n    if (gap >= 0) {\n      var buffer = ArrayList<T>(bufferInitialCapacity)\n      var skip =  
0\n      for (e in iterator) {\n        if (skip > 0) { skip -= 1; continue }\n        buffer.add(e)\n        if  
(buffer.size == size) {\n          yield(buffer)\n          if (reuseBuffer) buffer.clear() else buffer =  
ArrayList(size)\n          skip = gap\n        }\n        if (buffer.isEmpty()) {\n          if  
(partialWindows || buffer.size == size) yield(buffer)\n        } else {\n          var buffer = RingBuffer<T>(bufferInitialCapacity)\n          for (e in iterator) {\n            buffer.add(e)\n             
if (buffer.isFull()) {\n              if (buffer.size < size) { buffer = buffer.expanded(maxCapacity = size); continue  
}\n              yield(if (reuseBuffer) buffer else ArrayList(buffer))\n              buffer.removeFirst(step)\n            }\n          }\n          if (partialWindows) {\n            while (buffer.size > step) {\n              yield(if  
(reuseBuffer) buffer else ArrayList(buffer))\n              buffer.removeFirst(step)\n            }\n            if  
(buffer.isNotEmpty()) yield(buffer)\n          }\n        }\n      }\n}\n}\n\ninternal class MovingSubList<out E>(private val  
list: List<E>) : AbstractList<E>(), RandomAccess {\n  private var fromIndex: Int = 0\n  private var _size: Int =  
0\n  fun move(fromIndex: Int, toIndex: Int) {\n    checkRangeIndexes(fromIndex, toIndex,  
list.size)\n    this.fromIndex = fromIndex\n    this._size = toIndex - fromIndex\n  }\n  override fun  
get(index: Int): E {\n    checkElementIndex(index, _size)\n    return list[fromIndex + index]\n  }\n  override val size: Int get() = _size\n}\n\n/**\n * Provides ring buffer implementation.\n * Buffer overflow is  
not allowed so [add] doesn't overwrite tail but raises an exception.\n */\nprivate class RingBuffer<T>(private val  
buffer: Array<Any?>, filledSize: Int) : AbstractList<T>(), RandomAccess {\n  init {\n    require(filledSize >= 0)  
    { \"ring buffer filled size should not be negative but it is $filledSize\" }\n    require(filledSize <= buffer.size) {\n      \"ring buffer filled size: $filledSize cannot be larger than the buffer size: ${buffer.size}\"\n    }\n  }\n  constructor(capacity: Int) : this(arrayOfNulls<Any?>(capacity), 0)\n  private val capacity = buffer.size\n  private var startIndex: Int = 0\n  override var size: Int = filledSize\n\n  private set\n  override fun get(index: Int): T {\n    checkElementIndex(index, size)\n    @Suppress(\"UNCHECKED_CAST\")\n    return buffer[startIndex.forward(index)] as T\n  }\n  fun isFull() =  
size == capacity\n  override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {\n    private var count  
= size\n    private var index = startIndex\n    override fun computeNext() {\n      if (count == 0) {\n        done()\n      } else {\n        @Suppress(\"UNCHECKED_CAST\")\n        setNext(buffer[index] as  
T)\n        index = index.forward(1)\n        count--\n      }\n    }\n  }\n}\n\n@Suppress(\"UNCHECKED_CAST\")\noverride fun <T> toArray(array: Array<T>): Array<T> {\n  val  
result: Array<T?> =\n    if (array.size < this.size) array.copyOf(this.size) else array as Array<T?>\n  val  
size = this.size\n  var widx = 0\n  var  
idx = startIndex\n  while (widx < size && idx < capacity) {\n    result[widx] = buffer[idx] as T\n    widx++\n    idx++\n  }\n  idx = 0\n  while (widx < size) {\n    result[widx] = buffer[idx] as  
T\n    widx++\n    idx++\n  }\n  if (result.size > this.size) result[this.size] = null\n  return  
result as Array<T>\n}\n\noverride fun toArray(): Array<Any?> {\n  return toArray(arrayOfNulls(size))\n}\n\n/**\n * Creates a new ring buffer with the capacity equal to the minimum of [maxCapacity] and 1.5 *\n [capacity].\n * The returned ring buffer contains the same elements as this ring buffer.\n */\nfun  
expanded(maxCapacity: Int): RingBuffer<T> {\n  val newCapacity = (capacity + (capacity shr 1) +  
1).coerceAtMost(maxCapacity)\n  val newBuffer = if (startIndex == 0) buffer.copyOf(newCapacity) else  
toArray(arrayOfNulls(newCapacity))\n  return RingBuffer(newBuffer,  


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size)\n }\n\n /**\n * Add [element] to the buffer or fail with [IllegalStateException] if no free space available
in the buffer\n */\n fun add(element: T) {\n     if (isFull()) {\n         throw IllegalStateException("ring buffer
is full")\n     }\n     buffer[startIndex.forward(size)] = element\n     size++\n }\n\n /**\n * Removes [n]
first elements from the buffer or fails with [IllegalArgumentException] if not enough elements in the buffer to
remove\n */\n fun removeFirst(n: Int) {\n     require(n >= 0) { "n shouldn't be negative but it is $n" }\n
require(n <= size) { "n shouldn't be greater than the buffer size: n = $n, size = $size" }\n     if (n > 0) {\n
val start = startIndex\n         val end = start.forward(n)\n         if (start > end) {\n             buffer.fill(null, start,
capacity)\n             buffer.fill(null, 0, end)\n         } else {\n             buffer.fill(null,
start, end)\n         }\n         startIndex = end\n         size -= n\n     }\n }\n\n\n@Suppress("NOTHING_TO_INLINE")\n private inline fun Int.forward(n: Int): Int = (this + n) %
capacity\n}\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.collections\n\n// UByteArray

```

```

=====\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n     array: UByteArray, left: Int, right: Int): Int {\n     var i = left\n
var j = right\n     val pivot = array[(left + right) / 2]\n     while (i <= j) {\n         while (array[i] < pivot)\n             i++\n
while (array[j] > pivot)\n             j--\n         if (i <= j) {\n             val tmp = array[i]\n             array[i] = array[j]\n
array[j] =
tmp\n             i++\n             j--\n         }\n     }\n     return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n     array: UByteArray, left: Int, right: Int) {\n     val index = partition(array, left, right)\n     if (left < index
- 1)\n         quickSort(array, left, index - 1)\n     if (index < right)\n         quickSort(array, index, right)\n}\n\n//
UShortArray

```

```

=====\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n     array: UShortArray, left: Int, right: Int): Int {\n     var i = left\n
var j = right\n     val pivot = array[(left + right) / 2]\n     while (i <= j) {\n         while (array[i] < pivot)\n             i++\n
while (array[j] > pivot)\n             j--\n         if (i <= j) {\n             val tmp = array[i]\n             array[i] = array[j]\n
array[j] = tmp\n             i++\n             j--\n         }\n     }\n     return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n     array: UShortArray, left: Int, right: Int) {\n     val index = partition(array, left, right)\n     if (left < index
- 1)\n         quickSort(array, left, index - 1)\n     if (index < right)\n         quickSort(array, index, right)\n}\n\n//
UIntArray

```

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=====\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n     array: UIntArray, left: Int, right: Int): Int {\n     var i = left\n
var j = right\n     val pivot = array[(left + right) / 2]\n     while (i <= j) {\n         while (array[i] < pivot)\n             i++\n
while (array[j] > pivot)\n             j--\n         if (i <= j) {\n             val tmp = array[i]\n             array[i] = array[j]\n
array[j] = tmp\n             i++\n             j--\n         }\n     }\n     return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n     array: UIntArray, left: Int, right: Int) {\n     val index = partition(array, left, right)\n     if (left <
index - 1)\n         quickSort(array, left, index - 1)\n     if (index < right)\n         quickSort(array, index, right)\n}\n\n//
ULongArray

```

```

=====\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n     array: ULongArray, left: Int, right: Int): Int {\n     var i = left\n
var j = right\n     val pivot = array[(left + right) / 2]\n     while (i <= j) {\n         while (array[i] < pivot)\n             i++\n
while (array[j] > pivot)\n             j--\n         if (i <= j) {\n             val tmp = array[i]\n             array[i] = array[j]\n
array[j] = tmp\n             i++\n             j--\n         }\n     }\n     return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n     array: ULongArray, left: Int, right: Int) {\n     val index = partition(array, left, right)\n     if (left < index
- 1)\n         quickSort(array, left, index - 1)\n     if (index < right)\n         quickSort(array, index, right)\n}\n\n\n//
Interfaces

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=====\n/**\n * Sorts the given array using qsort algorithm.\n */\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array:

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UByteArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex -
1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UShortArray, fromIndex: Int, toIndex: Int) =
quickSort(array, fromIndex, toIndex - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UIntArray,
fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex -
1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: ULongArray, fromIndex: Int, toIndex: Int) =
quickSort(array, fromIndex, toIndex - 1)","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.contracts\n\nimport kotlin.internal.ContractsDsl\nimport
kotlin.internal.InlineOnly\n\n/**\n * This marker distinguishes the experimental contract declaration API and is
used to opt-in for that feature\n * when declaring contracts of user functions.\n *\n * Any usage of a declaration
annotated with `@ExperimentalContracts` must be accepted either by\n * annotating that usage with the [OptIn]
annotation, e.g. `@OptIn(ExperimentalContracts::class)`,\n * or by using the compiler argument `-Xopt-
in=kotlin.contracts.ExperimentalContracts`.\n
*\n * @Suppress("DEPRECATION")\n * @Retention(AnnotationRetention.BINARY)\n * @SinceKotlin("1.3")\n * @Ex
perimental\n * @RequiresOptIn\n * @MustBeDocumented\n * public annotation class ExperimentalContracts\n\n/**\n *
Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc.,\n * can be used to
describe the contract of a function.\n *\n * This type is used as a receiver type of the lambda function passed to the
[contract] function.\n *\n * @see contract\n
*\n * @ContractsDsl\n * @ExperimentalContracts\n * @SinceKotlin("1.3")\n * public interface ContractBuilder {\n
/**\n * Describes a situation when a function returns normally, without any exceptions thrown.\n *\n * Use
[SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n *\n * //
@sample samples.contracts.returnsContract\n * @ContractsDsl public fun returns(): Returns\n\n /**\n *
Describes a situation when a function returns normally with the specified return [value].\n *\n * The possible
values of [value] are limited to `true`, `false` or `null`.\n *\n * Use [SimpleEffect.implies] function to describe a
conditional effect that happens in such case.\n *\n * // @sample samples.contracts.returnsTrueContract\n
// @sample samples.contracts.returnsFalseContract\n // @sample samples.contracts.returnsNullContract\n
@ContractsDsl public fun returns(value: Any?): Returns\n\n /**\n
* Describes a situation when a function returns normally with any value that is not `null`.\n *\n * Use
[SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n *\n * //
@sample samples.contracts.returnsNotNullContract\n * @ContractsDsl public fun returnsNotNull():
ReturnsNotNull\n\n /**\n * Specifies that the function parameter [lambda] is invoked in place.\n *\n * This
contract specifies that:\n * 1. the function [lambda] can only be invoked during the call of the owner function,\n
* and it won't be invoked after that owner function call is completed;\n * 2. (optionally) the function [lambda]
is invoked the amount of times specified by the [kind] parameter.\n * see the [InvocationKind] enum for possible
values.\n *\n * A function declaring the `callsInPlace` effect must be _inline_.\n *\n * // @sample
samples.contracts.callsInPlaceAtMostOnceContract\n * @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n * @sample
samples.contracts.callsInPlaceExactlyOnceContract\n * @sample
samples.contracts.callsInPlaceUnknownContract\n *\n * @ContractsDsl public fun <R> callsInPlace(lambda:
Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\n}\n\n/**\n * Specifies how
many times a function invokes its function parameter in place.\n *\n * See [ContractBuilder.callsInPlace] for the
details of the call-in-place function contract.\n
*\n * @ContractsDsl\n * @ExperimentalContracts\n * @SinceKotlin("1.3")\n * public enum class InvocationKind {\n
/**\n * A function parameter will be invoked one time or not invoked at all.\n *\n * // @sample
samples.contracts.callsInPlaceAtMostOnceContract\n * @ContractsDsl AT_MOST_ONCE,\n\n /**\n * A
function parameter will be invoked one or more times.\n *\n * // @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n * @ContractsDsl AT_LEAST_ONCE,\n\n

```

```

/**\n * A function parameter will be invoked exactly one time.\n *\n */\n // @sample
samples.contracts.callsInPlaceExactlyOnceContract\n @ContractsDsl EXACTLY_ONCE,\n\n /**\n * A
function parameter is called in place, but it's unknown how many times it can be called.\n *\n */\n // @sample
samples.contracts.callsInPlaceUnknownContract\n @ContractsDsl UNKNOWN\n}\n\n/**\n * Specifies the
contract of a function.\n *\n * The contract description must be at the beginning of a function and have at least one
effect.\n *\n * Only the top-level functions can have a contract for now.\n *\n * @param builder the lambda where
the contract of a function is described with the help of the [ContractBuilder] members.\n *\n */\n// @sample
samples.contracts.returnsContract\n* @sample samples.contracts.returnsTrueContract\n* @sample
samples.contracts.returnsFalseContract\n* @sample samples.contracts.returnsNullContract\n* @sample
samples.contracts.returnsNotNullContract\n*
@sample samples.contracts.callsInPlaceAtMostOnceContract\n* @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n* @sample
samples.contracts.callsInPlaceExactlyOnceContract\n* @sample
samples.contracts.callsInPlaceUnknownContract\n*/\n@ContractsDsl\n@ExperimentalContracts\n@InlineOnly\n@
SinceKotlin("1.3")\n@Suppress("UNUSED_PARAMETER")\npublic inline fun contract(builder:
ContractBuilder.() -> Unit) { }\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\n/**\n * Marks coroutine context element that
intercepts coroutine continuations.\n * The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the
interceptor and\n * intercepts all coroutine continuations with [interceptContinuation] invocations.\n *\n *
[ContinuationInterceptor] behaves like a [polymorphic element][AbstractCoroutineContextKey],
meaning that\n * its implementation delegates [get][CoroutineContext.Element.get] and
[minusKey][CoroutineContext.Element.minusKey]\n * to [getPolymorphicElement] and [minusPolymorphicKey]
respectively.\n * [ContinuationInterceptor] subtypes can be extracted from the coroutine context using either
[ContinuationInterceptor.Key]\n * or subtype key if it extends [AbstractCoroutineContextKey].\n
*/\n\n@SinceKotlin("1.3")\npublic interface ContinuationInterceptor : CoroutineContext.Element {\n\n /**\n *
The key that defines *the* context interceptor.\n *\n */\n companion object Key :
CoroutineContext.Key<ContinuationInterceptor>\n\n /**\n * Returns continuation that wraps the original
[continuation], thus intercepting all resumptions.\n *\n * This function is invoked by coroutines framework when
needed and the resulting continuations are\n * cached internally per each instance of the original [continuation].\n
*\n * This function
may simply return original [continuation] if it does not want to intercept this particular continuation.\n *\n *
When the original [continuation] completes, coroutine framework invokes [releaseInterceptedContinuation]\n *
with the resulting continuation if it was intercepted, that is if `interceptContinuation` had previously\n * returned
a different continuation instance.\n *\n */\n public fun <T> interceptContinuation(continuation: Continuation<T>):
Continuation<T>\n\n /**\n * Invoked for the continuation instance returned by [interceptContinuation] when
the original\n * continuation completes and will not be used anymore. This function is invoked only if
[interceptContinuation]\n * had returned a different continuation instance from the one it was invoked with.\n
*\n * Default implementation does nothing.\n *\n * @param continuation Continuation instance returned by
this interceptor's [interceptContinuation] invocation.\n *\n */\n
public fun releaseInterceptedContinuation(continuation: Continuation<*>) {\n\n /* do nothing by default */\n
}\n\n public override operator fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E? {\n
// getPolymorphicKey specialized for ContinuationInterceptor key\n @OptIn(ExperimentalStdlibApi::class)\n
if (key is AbstractCoroutineContextKey<*, *>) {\n @Suppress("UNCHECKED_CAST")\n return
if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n }\n @Suppress("UNCHECKED_CAST")\n
return if (ContinuationInterceptor === key) this as E else null\n }\n\n public override fun minusKey(key:
CoroutineContext.Key<*>): CoroutineContext {\n\n // minusPolymorphicKey specialized for
ContinuationInterceptor key\n @OptIn(ExperimentalStdlibApi::class)\n if (key is

```





```

return false\n        val next = cur.left\n            if (next is CombinedContext) {\n                cur = next\n            }\n        else {\n            return contains(next as Element)\n        }\n    }\n\n    override fun equals(other: Any?): Boolean =\n        this === other || other is CombinedContext && other.size() == size() &&\n        other.containsAll(this)\n\n    override fun hashCode(): Int = left.hashCode() + element.hashCode()\n\n    override fun toString(): String =\n        "[" + fold("") { acc, element ->\n            if (acc.isEmpty()) element.toString() else\n            "$acc, $element"\n        } + "]\n\n    private fun writeReplace(): Any {\n        val n = size()\n        val elements =\n        arrayOfNulls<CoroutineContext>(n)\n        var index = 0\n        fold(Unit) { _, element -> elements[index++] =\n        element }\n        check(index == n)\n        @Suppress("UNCHECKED_CAST")\n        return Serialized(elements\n        as Array<CoroutineContext>)\n    }\n\n    private class Serialized(val elements: Array<CoroutineContext>) : Serializable {\n        companion object {\n            private const val serialVersionUID: Long = 0L\n        }\n        private fun readResolve(): Any =\n        elements.fold(EmptyCoroutineContext, CoroutineContext::plus)\n    }\n\n    /*\n    * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n    * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n    */\n\n    @file:kotlin.jvm.JvmName("IntrinsicsKt")\n    @file:kotlin.jvm.JvmMultifileClass\n    @package kotlin.coroutines.intrinsics\n    @nimport kotlin.contracts.*\n    @nimport kotlin.coroutines.*\n    @nimport kotlin.internal.InlineOnly\n\n    /**\n     * Obtains the current continuation instance inside suspend functions and either suspends\n     * currently running coroutine or returns result immediately without suspension.\n     * If the [block] returns the special [COROUTINE_SUSPENDED] value, it means that suspend\n     * function did suspend the execution and will\n     * not return any result immediately. In this case, the [Continuation] provided to the [block] shall be\n     * resumed by invoking [Continuation.resumeWith] at some moment in the\n     * future when the result becomes available to resume the computation.\n     * Otherwise, the return value of the [block] must have a type assignable to [T] and represents the result of this suspend function.\n     * It means that the execution was not suspended and the [Continuation] provided to the [block] shall not be invoked.\n     * As the result type of the [block] is declared as `Any?` and cannot be correctly type-checked,\n     * its proper return type remains on the conscience of the suspend function's author.\n     * Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's thread without going through the\n     * [ContinuationInterceptor] that might be present in the coroutine's [CoroutineContext].\n     * It is the invoker's responsibility to ensure that a proper invocation context is established.\n     * [Continuation.intercepted] can be used to acquire the intercepted continuation.\n     * Note that it is not recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions synchronously\n     * in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way to obtain current\n     * continuation instance.\n     */\n\n    @SinceKotlin("1.3")\n    @InlineOnly\n    @Suppress("UNUSED_PARAMETER", "RedundantSuspendModifier")\n    @public suspend inline fun <T>\n    suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T {\n        contract {\n            callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n        }\n        throw NotImplementedError("Implementation of suspendCoroutineUninterceptedOrReturn is intrinsic")\n    }\n\n    /**\n     * This value is used as a return value of [suspendCoroutineUninterceptedOrReturn] `block` argument to state that\n     * the execution was suspended and will not return any result immediately.\n     * Note: this value should not be used in general code. Using it outside of the context of\n     * `suspendCoroutineUninterceptedOrReturn` function return value (including, but not limited to,\n     * storing this value in other properties, returning it from other functions, etc)\n     * can lead to unspecified behavior of the code.\n     */\n\n    // It is implemented as property with getter to avoid ProGuard <clinit> problem with multifile IntrinsicsKt\n    class\n    @SinceKotlin("1.3")\n    @public val COROUTINE_SUSPENDED: Any get() =\n    CoroutineSingletons.COROUTINE_SUSPENDED\n\n    // Using enum here ensures two important properties:\n    // 1. It makes SafeContinuation serializable with all kinds of serialization frameworks (since all of them natively support enums)\n    // 2. It improves debugging experience, since you clearly see toString() value of those objects and what package they come from\n    @SinceKotlin("1.3")\n    @PublishedApi // This class is Published API via serialized

```

representation of SafeContinuation,

don't rename/move\ninternal enum class CoroutineSingletons { COROUTINE\_SUSPENDED, UNDECIDED, RESUMED } \n", "/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

\*\n\npackage kotlin.experimental\n\n/\*\* Performs a bitwise AND operation between the two values.

\*\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.and(other: Byte): Byte = (this.toInt() and other.toInt()).toByte()\n\n/\*\* Performs a bitwise OR operation between the two values.

\*\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.or(other: Byte): Byte = (this.toInt() or other.toInt()).toByte()\n\n/\*\* Performs a bitwise XOR operation between the two values.

\*\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.xor(other: Byte): Byte = (this.toInt() xor other.toInt()).toByte()\n\n/\*\*

Inverts the bits in this value. \*\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.inv(): Byte = (this.toInt().inv()).toByte()\n\n/\*\* Performs a bitwise AND operation between the two values.

\*\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.and(other: Short): Short = (this.toInt() and other.toInt()).toShort()\n\n/\*\* Performs a bitwise OR operation between the two values.

\*\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.or(other: Short): Short = (this.toInt() or other.toInt()).toShort()\n\n/\*\* Performs a bitwise XOR operation between the two values.

\*\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.xor(other: Short): Short = (this.toInt() xor other.toInt()).toShort()\n\n/\*\* Inverts the bits in this value.

\*\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun Short.inv(): Short = (this.toInt().inv()).toShort()\n\n", "/\*\n

\* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage

kotlin.experimental\n\n/\*\*\n \* The experimental marker for type inference augmenting annotations.\n \* Any usage of a declaration annotated with `@ExperimentalTypeInference` must be accepted either by\n \* annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalTypeInference::class)`,\n \* or by using the compiler argument `Xopt-in=kotlin.experimental.ExperimentalTypeInference`.\n

\*\n\n@Suppress("DEPRECATION")\n@Experimental(level =

Experimental.Level.ERROR)\n@RequiresOptIn(level =

RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.ANNOTATION\_CLASS)\n@SinceKotlin("1.3")\npublic annotation class

ExperimentalTypeInference\n", "/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin

Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage kotlin.internal\n\n/\*\* Specifies that the corresponding type should be ignored during type inference.\n

\*\n\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class

NoInfer\n\n/\*\* Specifies that the constraint built for the type during type inference should be an equality one.\n

\*\n\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class

Exact\n\n/\*\* Specifies that a corresponding member has the lowest priority in overload resolution.\n

\*\n\n@Target(AnnotationTarget.FUNCTION,

AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class

LowPriorityInOverloadResolution\n\n/\*\* Specifies that the corresponding member has the highest priority in overload resolution. Effectively this means that\n

\* an extension annotated with this annotation will win in overload resolution over a member with the same signature.\n \*/\n\n@Target(AnnotationTarget.FUNCTION,

AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class

HidesMembers\n\n/\*\* The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type).\n

```

*\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal
annotation class OnlyInputTypes\n\n/**\n * Specifies that this function should not be called directly without
inlining\n *\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY,
AnnotationTarget.PROPERTY_GETTER,
AnnotationTarget.PROPERTY_SETTER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class
InlineOnly\n\n/**\n * Specifies that this declaration can have dynamic receiver type.\n
*\n@Target(AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal
annotation class DynamicExtension\n\n/**\n * The value of this parameter should be a property reference
expression (`this::foo`), referencing a `lateinit` property,\n * the backing field of which is accessible at the point
where the corresponding argument is passed.\n
*\n@Target(AnnotationTarget.VALUE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\n@SinceK
otlin("1.2")\ninternal annotation class AccessibleLateinitPropertyLiteral\n\n/**\n * Specifies that this declaration is
only completely supported since the specified version.\n *\n * The Kotlin compiler of an earlier version is going to
report a diagnostic on usages of this declaration.\n * The diagnostic message can be specified with [message], or via
[errorCode] (takes less space, but might not be immediately clear\n * to the user). The diagnostic severity can be
specified with [level]: WARNING/ERROR mean that either a warning or an error\n * is going to be reported,
HIDDEN means that the declaration is going
to be removed from resolution completely.\n *\n * [versionKind] specifies which version should be compared with
the [version] value, when compiling the usage of the annotated declaration.\n * Note that prior to 1.2, only
[RequireKotlinVersionKind.LANGUAGE_VERSION] was supported, so the Kotlin compiler before 1.2 is going
to\n * treat any [RequireKotlin] as if it requires the language version. Since 1.2, the Kotlin compiler supports\n *
[RequireKotlinVersionKind.LANGUAGE_VERSION], [RequireKotlinVersionKind.COMPILER_VERSION] and
[RequireKotlinVersionKind.API_VERSION].\n * If the actual value of [versionKind] is something different (e.g. a
new version kind, added in future versions of Kotlin),\n * Kotlin 1.2 is going to ignore this [RequireKotlin]
altogether, where as Kotlin before 1.2 is going to treat this as a requirement\n * on the language version.\n *\n *
This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata.\n
*\n@Target(AnnotationTarget.CLASS,
AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR,
AnnotationTarget.TYPEALIAS)\n@Retention(AnnotationRetention.SOURCE)\n@Repeatable\n@SinceKotlin("1.
2")\ninternal annotation class RequireKotlin(\n    val version: String,\n    val message: String = "",\n    val level:
DeprecationLevel = DeprecationLevel.ERROR,\n    val versionKind: RequireKotlinVersionKind =
RequireKotlinVersionKind.LANGUAGE_VERSION,\n    val errorCode: Int = -1\n)\n\n/**\n * The kind of the
version that is required by [RequireKotlin].\n *\n@SinceKotlin("1.2")\ninternal enum class
RequireKotlinVersionKind {\n    LANGUAGE_VERSION,\n    COMPILER_VERSION,\n    API_VERSION,\n}\n\n/**\n * Specifies that this declaration is a part
of special DSL, used for constructing
function's contract.\n *\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.2")\ninternal annotation
class ContractsDsl\n\n/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n@package kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Standard
property delegates.\n *\npublic object Delegates {\n    /**\n     * Returns a property delegate for a read/write
property with a non-`null` value that is initialized not during\n     * object construction time but at a later time.
Trying to read the property before the initial value has been\n     * assigned results in an exception.\n     *\n     *
@sample samples.properties.Delegates.notNullDelegate\n     *\n     public fun <T : Any> notNull():
ReadWriteProperty<Any?, T> = NotNullVar()\n\n    /**\n     * Returns a property delegate for a read/write property
that calls a specified callback function when changed.\n     * @param initialValue the initial value of the property.\n
     * @param onChange the callback which is called after the change of the property

```

```

is made. The value of the property
 * has already been changed when this callback is invoked.
 *
 * @sample samples.properties.Delegates.observableDelegate
 *
 observable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Unit):
     ReadWriteProperty<Any?, T> = {
         object : ObservableProperty<T>(initialValue) {
             override fun
 afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property, oldValue, newValue)
         }
     }
 /**
 * Returns a property delegate for a read/write property that calls a specified callback function when
 changed,
 * allowing the callback to veto the modification.
 * @param initialValue the initial value of the
 property.
 * @param onChange the callback which is called before a change to the property value is attempted.
 *
 * The value of the property hasn't been changed yet, when this callback is invoked.
 *
 * If the callback returns `true` the value of the property is being set to the new value,
 * and if the callback
 returns `false` the new value is discarded and the property remains its old value.
 *
 * @sample
 samples.properties.Delegates.vetoableDelegate
 *
 @sample
 samples.properties.Delegates.throwVetoableDelegate
 *
 public inline fun <T> vetoable(initialValue: T,
 crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean):
 ReadWriteProperty<Any?, T> = {
     object : ObservableProperty<T>(initialValue) {
         override fun
 beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = onChange(property, oldValue,
 newValue)
     }
 }
 private class NotNullVar<T : Any>(): ReadWriteProperty<Any?, T> {
     private var
 value: T? = null
     public override fun getValue(thisRef: Any?, property: KProperty<*>): T {
         return value
 ? : throw IllegalStateException("Property
 ${property.name} should be initialized before get.")
     }
     public override fun setValue(thisRef: Any?,
 property: KProperty<*>, value: T) {
         this.value = value
     }
 }
 /**
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 * Use of this source code is governed by the Apache 2.0
 license that can be found in the license/LICENSE.txt file.
 */
 package kotlin.properties
 import
 kotlin.reflect.KProperty
 /**
 * Base interface that can be used for implementing property delegates of read-only
 properties.
 * This is provided only for convenience; you don't have to extend this interface
 * as long as your
 property delegate has methods with the same signatures.
 * @param T the type of object which owns the
 delegated property.
 * @param V the type of the property value.
 */
 public fun interface ReadOnlyProperty<in
 T, out V> {
     /**
 * Returns the value of the property for the given object.
 * @param
 thisRef the object for which the value is requested.
 * @param property the metadata for the property.
 *
 * @return the property value.
 */
     public operator fun getValue(thisRef: T, property: KProperty<*>):
 V
 }
 /**
 * Base interface that can be used for implementing property delegates of read-write properties.
 * This is provided only for convenience; you don't have to extend this interface
 * as long as your property delegate
 has methods with the same signatures.
 * @param T the type of object which owns the delegated property.
 * @param V the type of the property value.
 */
 public fun interface ReadWriteProperty<in T, V> :
 ReadOnlyProperty<T, V> {
     /**
 * Returns the value of the property for the given object.
 * @param
 thisRef the object for which the value is requested.
 * @param property the metadata for the property.
 *
 * @return the property value.
 */
     public override operator fun getValue(thisRef: T, property: KProperty<*>):
 V
     /**
 * Sets the value of the property for the given object.
 * @param thisRef the object for which the
 value is requested.
 * @param property the metadata for the property.
 * @param value the value to set.
 */
     public operator fun setValue(thisRef: T, property: KProperty<*>, value: V)
 }
 /**
 * Base interface that
 can be used for implementing property delegate providers.
 * This is provided only for convenience; you don't
 have to extend this interface
 * as long as your delegate provider has a method with the same signature.
 * @param T the type of object which owns the delegated property.
 * @param D the type of property delegates this
 provider provides.
 */
 @SinceKotlin("1.4")
 public fun interface PropertyDelegateProvider<in T, out D> {
     /**
 * Returns the delegate of the property for the given object.
 *
 * This function can be used to extend
 the logic of creating the object (e.g. perform validation
 checks)
 * to which the property implementation is delegated.
 * @param thisRef the object for which
 property delegate is requested.
 * @param property the metadata for the property.
 *
 * @return the property

```

```

delegate.\n    *^n    public operator fun provideDelegate(thisRef: T, property: KProperty<*>): D{n}\n}","/*\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Implements the core logic of a property delegate for a
read/write property that calls callback functions when changed.\n * @param initialValue the initial value of the
property.\n */\n\npublic abstract class ObservableProperty<V>(initialValue: V) : ReadWriteProperty<Any?, V> {\n
private var value = initialValue\n\n    /**\n     * The callback which is called before
a change to the property value is attempted.\n     * The value of the property hasn't been changed yet, when this
callback is invoked.\n     * If the callback returns `true` the value of the property is being set to the new value,\n     *
and if the callback returns `false` the new value is discarded and the property remains its old value.\n     */\n
protected open fun beforeChange(property: KProperty<*>, oldValue: V, newValue: V): Boolean = true\n\n    /**\n
     * The callback which is called after the change of the property is made. The value of the property\n     * has already
been changed when this callback is invoked.\n     */\n
protected open fun afterChange(property: KProperty<*>,
oldValue: V, newValue: V): Unit {} \n\n    public override fun getValue(thisRef: Any?, property: KProperty<*>): V
{\n        return value\n    }\n\n    public override fun setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n
        val oldValue = this.value\n        if (!beforeChange(property,
oldValue, value)) {\n            return\n        }\n        this.value = value\n        afterChange(property, oldValue, value)\n
    }\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:Suppress("\PackageDirectoryMismatch")\npackage kotlin\n\nimport kotlin.reflect.*\n\n/**\n * An
extension operator that allows delegating a read-only property of type [V]\n * to a property reference to a property
of type [V] or its subtype.\n * @receiver A property reference to a read-only or mutable property of type [V] or
its subtype.\n * The reference is without a receiver, i.e. it either references a top-level property or\n * has the
receiver bound to it.\n * Example:\n * ```\n * class Login(val username: String)\n * val defaultLogin =
Login("Admin")\n * val defaultUsername by defaultLogin::username\n
* // equivalent to\n * val defaultUserName get() = defaultLogin.username\n * ```\n
*/\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V>
KProperty0<V>.getValue(thisRef: Any?, property: KProperty<*>): V {\n    return get()\n}\n\n/**\n * An extension
operator that allows delegating a mutable property of type [V]\n * to a property reference to a mutable property of
the same type [V].\n * @receiver A property reference to a mutable property of type [V].\n * The reference is
without a receiver, i.e. it either references a top-level property or\n * has the receiver bound to it.\n * Example:\n
* ```\n * class Login(val username: String, var incorrectAttemptCounter: Int = 0)\n * val defaultLogin =
Login("Admin")\n * var defaultLoginAttempts by defaultLogin::incorrectAttemptCounter\n * // equivalent to\n *
var defaultLoginAttempts: Int\n * get() = defaultLogin.incorrectAttemptCounter\n * set(value) {\n
defaultLogin.incorrectAttemptCounter = value
}\n * ```\n
*/\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V>
KMutableProperty0<V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n    set(value)\n}\n\n/**\n * An extension
operator that allows delegating a read-only member or extension property of type [V]\n * to a
property reference to a member or extension property of type [V] or its subtype.\n * @receiver A property
reference to a read-only or mutable property of type [V] or its subtype.\n * The reference has an unbound receiver of
type [T].\n * Example:\n * ```\n * class Login(val username: String)\n * val Login.user by
Login::username\n * // equivalent to\n * val Login.user get() = this.username\n * ```\n
*/\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, V> KProperty1<T,
V>.getValue(thisRef: T, property: KProperty<*>): V {\n    return get(thisRef)\n}\n\n/**\n * An extension operator
that allows delegating a mutable member or
extension property of type [V]\n * to a property reference to a member or extension mutable property of the same
type [V].\n * @receiver A property reference to a read-only or mutable property of type [V] or its subtype.\n *
The reference has an unbound receiver of type [T].\n * Example:\n * ```\n * class Login(val username:

```



```

fastLog2(nLow)\n                // toUInt().toLong()\n                nextBits(bitCount).toLong() and
0xFFFF_FFFF\n                }\n                nHigh == 1 ->\n                // toUInt().toLong()\nnextInt().toLong() and 0xFFFF_FFFF\n                else -> {\n                val bitCount = fastLog2(nHigh)\n                nextBits(bitCount).toLong().shl(32) + nextInt()\n                }\n                }\n                } else {\nvar v: Long\n                do {\n                val bits = nextLong().ushr(1)\n                v = bits % n\n                }\nwhile (bits - v + (n - 1) < 0)\n                rnd = v\n                }\n                return from + rnd\n                } else {\n                while
(true) {\n                val rnd = nextLong()\n                if (rnd in from until until) return rnd\n                }\n                }\n                }\n\n/**\n * Gets the next random [Boolean] value.\n * @sample samples.random.Randoms.nextBoolean\n */\n public open fun nextBoolean(): Boolean = nextBits(1) != 0\n\n /**\n * Gets the next random [Double]
value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n * @sample
samples.random.Randoms.nextDouble\n */\n public open fun nextDouble(): Double =
doubleFromParts(nextBits(26),
nextBits(27))\n\n /**\n * Gets the next random non-negative `Double` from the random number generator less
than the specified [until] bound.\n * @sample samples.random.Randoms.nextDoubleFromUntil\n */\n public open fun nextDouble(until:
Double): Double = nextDouble(0.0, until)\n\n /**\n * Gets the next random `Double` from the random number
generator in the specified range.\n * @sample samples.random.Randoms.nextDoubleFromUntil\n */\n public open fun nextDouble(from: Double, until: Double): Double {\n    checkRangeBounds(from,
until)\n    val size = until - from\n    val r = if (size.isInfinite() && from.isFinite() && until.isFinite()) {\n    val r1 = nextDouble() * (until / 2 - from / 2)\n    from + r1 + r1\n    } else {\n    from + nextDouble() *
size\n    }\n    return if (r >= until) until.nextDown() else r\n    }\n\n /**\n * Gets the next random [Float]
value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n * @sample
samples.random.Randoms.nextFloat\n */\n public open fun nextFloat(): Float = nextBits(24) / (1 shl
24).toFloat()\n\n /**\n * Fills a subrange of the specified byte [array] starting from [fromIndex] inclusive and
ending [toIndex] exclusive\n * with random bytes.\n * @return [array] with the subrange filled with
random bytes.\n * @sample samples.random.Randoms.nextBytes\n */\n public open fun nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {\n    require(fromIndex in 0..array.size && toIndex in 0..array.size) { "\"fromIndex ($fromIndex) or toIndex ($toIndex)
are out of range: 0..${array.size}." }\n    require(fromIndex <= toIndex) { "\"fromIndex ($fromIndex) must be not
greater than toIndex ($toIndex).\" }\n    val steps = (toIndex - fromIndex) / 4\n    var position = fromIndex\n    repeat(steps) {\n    val v = nextInt()\n    array[position] = v.toByte()\n    array[position + 1] =
v.ushr(8).toByte()\n    array[position + 2] = v.ushr(16).toByte()\n    array[position + 3] =
v.ushr(24).toByte()\n    position += 4\n    }\n    val remainder = toIndex - position\n    val vr =
nextBits(remainder * 8)\n    for (i in 0 until remainder) {\n    array[position + i] = vr.ushr(i * 8).toByte()\n    }\n    }\n\n    return array\n    }\n\n /**\n * Fills the specified byte [array] with random bytes and returns it.\n * @return [array] filled with random bytes.\n * @sample samples.random.Randoms.nextBytes\n */\n public open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)\n\n /**\n * Creates a
byte array of the specified [size], filled with random bytes.\n * @sample
samples.random.Randoms.nextBytes\n */\n public open fun nextBytes(size: Int): ByteArray =
nextBytes(ByteArray(size))\n\n /**\n * The default random number generator.\n * @sample
samples.random.Randoms.defaultRandom\n */\n companion object Default : Random() {\n    private val
defaultRandom: Random = defaultPlatformRandom()\n    override fun nextBits(bitCount: Int): Int =

```



```

Any) = \"Random range is empty: [$from, $until).\"\\n\", \"/*\\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\\n
*/\\n\\npackage kotlin.random\\n\\n/*\\n * Gets the next random [UInt] from the random number generator.\\n *\\n *
Generates a [UInt] random value uniformly distributed between [UInt.MIN_VALUE] and [UInt.MAX_VALUE]
(inclusive).\\n */\\n@SinceKotlin(\"1.3\")\\n@ExperimentalUnsignedTypes\\npublic fun Random.nextUInt(): UInt =
nextInt().toUInt()\\n\\n/*\\n * Gets the next random [UInt] from the random number generator less than the specified
[until] bound.\\n *\\n * Generates a [UInt] random value uniformly distributed between `0` (inclusive) and the
specified [until] bound (exclusive).\\n *\\n * @throws IllegalArgumentException if [until] is zero.\\n
*/\\n@SinceKotlin(\"1.3\")\\n@ExperimentalUnsignedTypes\\npublic fun Random.nextUInt(until: UInt): UInt =
nextUInt(0u, until)\\n\\n/*\\n * Gets the next random [UInt] from the random number generator in the specified
range.\\n *\\n * Generates a [UInt] random
value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\\n *\\n *
@throws IllegalArgumentException if [from] is greater than or equal to [until].\\n
*/\\n@SinceKotlin(\"1.3\")\\n@ExperimentalUnsignedTypes\\npublic fun Random.nextUInt(from: UInt, until: UInt):
UInt {\\n    checkUIntRangeBounds(from, until)\\n    val signedFrom = from.toInt() xor Int.MIN_VALUE\\n    val
signedUntil = until.toInt() xor Int.MIN_VALUE\\n    val signedResult = nextInt(signedFrom, signedUntil) xor
Int.MIN_VALUE\\n    return signedResult.toUInt()\\n}\\n\\n/*\\n * Gets the next random [UInt] from the random
number generator in the specified [range].\\n *\\n * Generates a [UInt] random value uniformly distributed in the
specified [range]:\\n * from `range.start` inclusive to `range.endInclusive` inclusive.\\n *\\n * @throws
IllegalArgumentException if [range] is empty.\\n */\\n@SinceKotlin(\"1.3\")\\n@ExperimentalUnsignedTypes\\npublic
fun Random.nextUInt(range: UIntRange): UInt = when
{\\n    range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\\n
range.last < UInt.MAX_VALUE -> nextUInt(range.first, range.last + 1u)\\n    range.first > UInt.MIN_VALUE ->
nextUInt(range.first - 1u, range.last) + 1u\\n    else -> nextUInt()\\n}\\n\\n/*\\n * Gets the next random [ULong] from
the random number generator.\\n *\\n * Generates a [ULong] random value uniformly distributed between
[ULong.MIN_VALUE] and [ULong.MAX_VALUE] (inclusive).\\n
*/\\n@SinceKotlin(\"1.3\")\\n@ExperimentalUnsignedTypes\\npublic fun Random.nextULong(): ULong =
nextLong().toULong()\\n\\n/*\\n * Gets the next random [ULong] from the random number generator less than the
specified [until] bound.\\n *\\n * Generates a [ULong] random value uniformly distributed between `0` (inclusive)
and the specified [until] bound (exclusive).\\n *\\n * @throws IllegalArgumentException if [until] is zero.\\n
*/\\n@SinceKotlin(\"1.3\")\\n@ExperimentalUnsignedTypes\\npublic fun Random.nextULong(until:
ULong): ULong = nextULong(0uL, until)\\n\\n/*\\n * Gets the next random [ULong] from the random number
generator in the specified range.\\n *\\n * Generates a [ULong] random value uniformly distributed between the
specified [from] (inclusive) and [until] (exclusive) bounds.\\n *\\n * @throws IllegalArgumentException if [from] is
greater than or equal to [until].\\n */\\n@SinceKotlin(\"1.3\")\\n@ExperimentalUnsignedTypes\\npublic fun
Random.nextULong(from: ULong, until: ULong): ULong {\\n    checkULongRangeBounds(from, until)\\n    val
signedFrom = from.toLong() xor Long.MIN_VALUE\\n    val signedUntil = until.toLong() xor
Long.MIN_VALUE\\n    val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\\n
return signedResult.toULong()\\n}\\n\\n/*\\n * Gets the next random [ULong] from the random number generator in
the specified [range].\\n *\\n * Generates a [ULong] random value uniformly distributed in the specified [range]:\\n *
from `range.start` inclusive to `range.endInclusive` inclusive.\\n
*\\n * @throws IllegalArgumentException if [range] is empty.\\n
*/\\n@SinceKotlin(\"1.3\")\\n@ExperimentalUnsignedTypes\\npublic fun Random.nextULong(range: ULongRange):
ULong = when {\\n    range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range:
$range\")\\n    range.last < ULong.MAX_VALUE -> nextULong(range.first, range.last + 1u)\\n    range.first >
ULong.MIN_VALUE -> nextULong(range.first - 1u, range.last) + 1u\\n    else -> nextULong()\\n}\\n\\n/*\\n * Fills
the specified unsigned byte [array] with random bytes and returns it.\\n *\\n * @return [array] filled with random

```

```

bytes.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array:
UByteArray): UByteArray {\n  nextBytes(array.asByteArray())\n  return array\n}\n\n/**\n * Creates an unsigned
byte array of the specified [size], filled with random bytes.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(size: Int): UByteArray
= nextBytes(size).asUByteArray()\n\n/**\n * Fills a subrange of the specified `UByte` [array] starting from [fromIndex] inclusive and ending [toIndex]
exclusive with random UBytes.\n *\n * @return [array] with the subrange filled with random bytes.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array: UByteArray,
fromIndex: Int = 0, toIndex: Int = array.size): UByteArray {\n  nextBytes(array.asByteArray(), fromIndex,
toIndex)\n  return array\n}\n\n@ExperimentalUnsignedTypes\ninternal fun checkUIntRangeBounds(from: UInt,
until: UInt) = require(until > from) { boundsErrorMessage(from, until) }\n@ExperimentalUnsignedTypes\ninternal
fun checkULongRangeBounds(from: ULong, until: ULong) = require(until > from) { boundsErrorMessage(from,
until) }\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.random\n\n/**\n * Random number generator, using Marsaglia's "xorwow" algorithm\n *\n *
Cycles after 2^192 - 2^32 repetitions.\n *\n * For more details, see Marsaglia, George (July 2003). "Xorshift
RNGs". Journal of Statistical Software. 8 (14). doi:10.18637/jss.v008.i14\n *\n * Available at
https://www.jstatsoft.org/v08/i14/paper\n *\n */\ninternal class XorWowRandom\ninternal constructor(\n  private
var x: Int,\n  private var y: Int,\n  private var z: Int,\n  private var w: Int,\n  private var v: Int,\n  private var
addend: Int\n) : Random() {\n  internal constructor(seed1: Int, seed2: Int) : \n    this(seed1, seed2, 0, 0,
seed1.inv(), (seed1 shl 10) xor (seed2 ushr 4))\n\n  init {\n    require((x or y or z or w or v) != 0) { "Initial state
must have at least one non-zero element." }\n\n    // some trivial seeds can produce several values with zeroes in
upper bits, so we discard first 64\n    repeat(64) { nextInt() }\n\n    }\n\n  override fun nextInt(): Int {\n    // Equivalent to the xorwow algorithm\n    // From Marsaglia, G.
2003. Xorshift RNGs. J. Statis. Soft. 8, 14, p. 5\n    var t = x\n    t = t xor (t ushr 2)\n    x = y\n    y = z\n
z = w\n    val v0 = v\n    w = v0\n    t = (t xor (t shl 1)) xor v0 xor (v0 shl 4)\n    v = t\n    addend +=
362437\n    return t + addend\n  }\n\n  override fun nextBits(bitCount: Int): Int =\n    nextInt().takeUpperBits(bitCount)\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("RangesKt")\n\npackage
kotlin.ranges\n\n/**\n * Represents a range of [Comparable] values.\n *\n */\nprivate open class ComparableRange<T> :
Comparable<T>>(\n  override val start: T,\n  override
val endInclusive: T\n) : ClosedRange<T> {\n\n  override fun equals(other: Any?): Boolean {\n    return other is
ComparableRange<*> && (isEmpty() && other.isEmpty() ||\n      start == other.start && endInclusive ==
other.endInclusive)\n  }\n\n  override fun hashCode(): Int {\n    return if (isEmpty()) -1 else 31 *
start.hashCode() + endInclusive.hashCode()\n  }\n\n  override fun toString(): String =
"\$start..\$endInclusive"\n}\n\n/**\n * Creates a range from this [Comparable] value to the specified [that] value.\n
*\n * This value needs to be smaller than [that] value, otherwise the returned range will be empty.\n * @sample
samples.ranges.Ranges.rangeFromComparable\n *\n */\npublic operator fun <T : Comparable<T>> T.rangeTo(that: T):
ClosedRange<T> = ComparableRange(this, that)\n\n/**\n * Represents a range of floating point numbers.\n *
Extends [ClosedRange] interface providing custom operation [lessThanOrEquals] for comparing values of range
domain type.\n
*\n * This interface is implemented by floating point ranges returned by [Float.rangeTo] and [Double.rangeTo]
operators to\n * achieve IEEE-754 comparison order instead of total order of floating point numbers.\n
*\n@SinceKotlin("1.1")\npublic interface ClosedFloatingPointRange<T> : Comparable<T>> : ClosedRange<T>
{\n  override fun contains(value: T): Boolean = lessThanOrEquals(start, value) && lessThanOrEquals(value,
endInclusive)\n  override fun isEmpty(): Boolean = !lessThanOrEquals(start, endInclusive)\n}\n\n /**\n *

```

```

Compares two values of range domain type and returns true if first is less than or equal to second.
 */
fun
lessThanOrEquals(a: T, b: T): Boolean {
    /**
     * A closed range of values of type `Double`.
     * Numbers
     are compared with the ends of this range according to IEEE-754.
     */
    private class ClosedDoubleRange(
        start:
        Double,
        endInclusive: Double
    ) : ClosedFloatingPointRange<Double> {
        private val _start = start
        private
        val _endInclusive = endInclusive
        override val start: Double get() = _start
        override val endInclusive: Double
        get() = _endInclusive
        override fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b
        override
        fun contains(value: Double): Boolean = value >= _start && value <= _endInclusive
        override fun isEmpty():
        Boolean = !(_start <= _endInclusive)
        override fun equals(other: Any?): Boolean {
            return other is
            ClosedDoubleRange && (isEmpty() && other.isEmpty() ||
                _start == other._start && _endInclusive ==
                other._endInclusive)
        }
        override fun hashCode(): Int {
            return if (isEmpty()) -1 else 31 *
            _start.hashCode() + _endInclusive.hashCode()
        }
        override fun toString(): String =
        "$_start..$_endInclusive"
    }
    /**
     * Creates a range from this [Double] value to the specified [that] value.
     * Numbers
     are compared with the ends of this range according to IEEE-754.
     */
    @sample
    samples.ranges.Ranges.rangeFromDouble
}

/**
 * @SinceKotlin("1.1")
 */
public operator fun Double.rangeTo(that: Double):
ClosedFloatingPointRange<Double> = ClosedDoubleRange(this, that)
/**
 * A closed range of values of type
`Float`.
 * Numbers
are compared with the ends of this range according to IEEE-754.
 */
private class
ClosedFloatRange(
    start: Float,
    endInclusive: Float
) : ClosedFloatingPointRange<Float> {
    private val
    _start = start
    private val _endInclusive = endInclusive
    override val start: Float get() = _start
    override val
    endInclusive: Float get() = _endInclusive
    override fun lessThanOrEquals(a: Float, b: Float): Boolean = a <=
    b
    override fun contains(value: Float): Boolean = value >= _start && value <= _endInclusive
    override fun
    isEmpty(): Boolean = !(_start <= _endInclusive)
    override fun equals(other: Any?): Boolean {
        return
        other is ClosedFloatRange && (isEmpty() && other.isEmpty() ||
            _start == other._start
            && _endInclusive == other._endInclusive)
    }
    override fun hashCode(): Int {
        return if (isEmpty()) -1
        else 31 * _start.hashCode() + _endInclusive.hashCode()
    }
    override fun toString(): String =
    "$_start..$_endInclusive"
}
/**
 * Creates a range from this [Float] value to the specified [that] value.
 * Numbers
are compared with the ends of this range according to IEEE-754.
 */
@sample
samples.ranges.Ranges.rangeFromFloat
}

/**
 * @SinceKotlin("1.1")
 */
public operator fun Float.rangeTo(that:
Float): ClosedFloatingPointRange<Float> = ClosedFloatRange(this, that)
/**
 * Returns `true` if this iterable
range contains the specified [element].
 * Always returns `false` if the [element] is `null`.
 */
}

/**
 * @SinceKotlin("1.3")
 */
@kotlin.internal.InlineOnly
public inline operator fun <T, R> R.contains(element: T?):
Boolean where T : Any, R : Iterable<T>, R : ClosedRange<T> =
    element != null &&
    contains(element)
}

internal fun checkStepIsPositive(isPositive:
Boolean, step: Number) {
    if (!isPositive) throw IllegalArgumentException("Step must be positive, was:
$step.")
}
/**
 * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmName("KClasses")
@file:Suppress("UNCHECKED_CAST")
package
kotlin.reflect
import kotlin.internal.LowPriorityInOverloadResolution
/**
 * Casts the given [value] to the
class represented by this [KClass] object.
 * Throws an exception if the value is `null` or if it is not an instance of
this class.
 * This is an experimental function that behaves as a similar function from kotlin.reflect.full on
JVM.
 * @see [KClass.isInstance]
 * @see [KClass.safeCast]
 */
}

/**
 * @SinceKotlin("1.4")
 */
@WasExperimental(ExperimentalStdlibApi::class)
@LowPriorityInOverloadResoluti
on
fun <T : Any> KClass<T>.cast(value:
Any?): T {
    if (!isInstance(value)) throw ClassCastException("Value cannot be cast to
$qualifiedOrSimpleName")
    return value as T
}
// TODO: replace with qualifiedName when it is fully
supported in K/JS
internal expect val KClass<*>.qualifiedOrSimpleName: String?
/**
 * Casts the given
[value] to the class represented by this [KClass] object.
 * Returns `null` if the value is `null` or if it is not an

```

```

instance of this class.\n * This is an experimental function that behaves as a similar function from
kotlin.reflect.full on JVM.\n * @see [KClass.isInstance]\n * @see [KClass.cast]\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@LowPriorityInOverloadResoluti
on\nfun <T : Any> KClass<T>.safeCast(value: Any?): T? {\n    return if (isInstance(value)) value as T else
null}\n\n",/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache
2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin.reflect\n\nimport
kotlin.jvm.JvmField\nimport kotlin.jvm.JvmStatic\n\n/**\n * Represents a type projection. Type projection is
usually the argument to another type in a type usage.\n * For example, in the type `Array<out Number>`, `out
Number` is the covariant projection of the type represented by the class `Number`.\n *\n * Type projection is either
the star projection, or an entity consisting of a specific type plus optional variance.\n *\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections)\n * for more information.\n
*\n@SinceKotlin("1.1")\npublic data class KTypeProjection constructor(\n    /**\n     * The use-site variance
specified in the projection, or `null` if this is a star projection.\n     *\n     * public val variance: KVariance?,\n     */\n    /**\n     * The type specified in the projection, or `null` if this is a star projection.\n     *\n     * public val type: KType?\n    ) {\n        init {\n            require((variance == null) == (type == null)) {\n                if
(variance == null)\n                    \"Star projection must have no type specified.\"\n                else\n                    \"The
projection variance $variance requires type to be specified.\"\n            }\n        }\n        override fun toString(): String =
when (variance) {\n            null -> \"*\n            KVariance.INVARIANT -> type.toString()\n            KVariance.IN -> \"in
$type\"\n            KVariance.OUT -> \"out $type\"\n        }\n        public companion object {\n            // provided for compiler
access\n            @JvmField\n            @PublishedApi\n            internal val star: KTypeProjection = KTypeProjection(null,
null)\n            /**\n             * Star projection, denoted by the `*` character.\n             * For example, in the type
`KClass<*>`, `*` is the star projection.\n             * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)\n             *\n             * for more information.\n             *\n             * public val STAR: KTypeProjection get() = star\n            /**\n             *
Creates an invariant projection of a given type. Invariant projection is just the type itself,\n             * without any use-
site variance modifiers applied to it.\n             * For example, in the type `Set<String>`, `String` is an invariant
projection of the type represented by the class `String`.\n             *\n             * @JvmStatic\n             * public fun invariant(type:
KType): KTypeProjection =\n                KTypeProjection(KVariance.INVARIANT, type)\n            /**\n             * Creates
a contravariant projection of a given type, denoted by the `in` modifier applied to a type.\n             * For example, in
the type `MutableList<in Number>`, `in Number` is a contravariant projection of the type of class `Number`.\n             *\n             * @JvmStatic\n             * public fun contravariant(type: KType): KTypeProjection =\n                KTypeProjection(KVariance.IN,
type)\n            /**\n             * Creates a covariant projection of a given type, denoted by the `out` modifier applied to a
type.\n             * For example, in the type `Array<out Number>`, `out Number` is a covariant projection of the type of
class `Number`.\n             *\n             * @JvmStatic\n             * public fun covariant(type: KType): KTypeProjection =\n                KTypeProjection(KVariance.OUT, type)\n        }\n    }\n\n",/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\npackage kotlin.reflect\n\n/**\n * Represents variance applied to a
type parameter on the declaration site (*declaration-site variance*),\n * or to a type in a projection (*use-site
variance*).\n *\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/generics.html#variance)\n * for more information.\n *\n * @see [KTypeParameter.variance]\n
* @see [KTypeProjection]\n *\n@SinceKotlin("1.1")\nenum class KVariance {\n    /**\n     * The affected type
parameter or type is *invariant*, which means it has no variance applied to it.\n     *\n     * INVARIANT,\n     */\n    /**\n     * The affected type parameter or type is *contravariant*. Denoted by the `in` modifier in the source code.\n     *\n     * IN,\n     */\n    /**\n     * The affected type parameter or type is *covariant*. Denoted by the `out` modifier in the source
code.\n     *\n     * OUT,\n     */\n\n",/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language

```

```

contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n * Returns a runtime representation of the given
reified type [T] as an instance of [KType].\n */\n@Suppress(\\"unused\\") // KT-
12448\n@SinceKotlin(\\"1.3\\")\n@ExperimentalStdlibApi\npublic inline fun <reified T> typeOf(): KType =\nthrow UnsupportedOperationException(\\"This
function is implemented as an intrinsic on all supported platforms.\\")\n","/*\n * Copyright 2010-2019 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\\"StringsKt\\")\n\npackage
kotlin.text\n\n/**\n * An object to which char sequences and values can be appended.\n */\nexpect interface
Appendable {\n    /**\n     * Appends the specified character [value] to this Appendable and returns this instance.\n
*/\n     * @param value the character to append.\n     */\n     fun append(value: Char): Appendable\n\n    /**\n     *
Appends the specified character sequence [value] to this Appendable and returns this instance.\n     */\n     * @param
value the character sequence to append. If [value] is `null`, then the four characters `\\`null\\` are appended to this
Appendable.\n\n     */\n     fun append(value: CharSequence?): Appendable\n\n    /**\n     * Appends a subsequence of the specified
character sequence [value] to this Appendable and returns this instance.\n     */\n     * @param value the character
sequence from which a subsequence is appended. If [value] is `null`,\n     * then characters are appended as if
[value] contained the four characters `\\`null\\`.\n     * @param startIndex the beginning (inclusive) of the
subsequence to append.\n     * @param endIndex the end (exclusive) of the subsequence to append.\n     */\n     *
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of the [value] character sequence indices or when `startIndex > endIndex`.\n     */\n     fun append(value:
CharSequence?, startIndex: Int, endIndex: Int): Appendable\n}\n\n/**\n * Appends a subsequence of the specified
character sequence [value] to this Appendable and returns this instance.\n */\n * @param value the
character sequence from which a subsequence is appended.\n * @param startIndex the beginning (inclusive) of the
subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.\n
*/\n\n@SinceKotlin(\\"1.4\\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T : Appendable>
T.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): T {\n
@Suppress(\\"UNCHECKED_CAST\\")\n    return append(value, startIndex, endIndex) as T\n}\n\n/**\n * Appends
all arguments to the given [Appendable].\n */\n\npublic fun <T : Appendable> T.append(vararg value:
CharSequence?): T {\n    for (item in value)\n        append(item)\n    return this\n}\n\n/**\n * Appends a line feed
character (`\\`n`) to this Appendable.\n */\n\n@SinceKotlin(\\"1.4\\")\n@kotlin.internal.InlineOnly\npublic
inline fun Appendable.appendLine(): Appendable = append(`\\`n`)\n\n/**\n * Appends value to the given Appendable
and a line feed character (`\\`n`) after it.\n */\n\n@SinceKotlin(\\"1.4\\")\n@kotlin.internal.InlineOnly\npublic inline fun
Appendable.appendLine(value: CharSequence?): Appendable = append(value).appendLine()\n\n/**\n * Appends value
to the given Appendable and a line feed character (`\\`n`) after it.\n */\n\n@SinceKotlin(\\"1.4\\")\n@kotlin.internal.InlineOnly\npublic inline fun Appendable.appendLine(value: Char):
Appendable = append(value).appendLine()\n\n\ninternal fun <T> Appendable.appendElement(element: T,
transform: ((T) -> CharSequence?) {\n    when {\n        transform != null -> append(transform(element))\n
element is CharSequence? -> append(element)\n        element is Char -> append(element)\n        else ->
append(element.toString())\n    }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\\"CharsKt\\")\n\npackage kotlin.text\n\n/**\n
* Concatenates this Char and a String.\n */\n * @sample samples.text.Chars.plus\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Char.plus(other: String): String = this.toString() +

```

```

other\n\n/**\n * Returns `true` if this character is equal to the [other] character, optionally ignoring character case.\n
*\n * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.\n *\n * Two
characters are considered the same ignoring case if at least one of the following is `true`:\n * - The two characters
are the same (as compared by the == operator)\n * - Applying the method [toUpperCase] to each character
produces the same result\n * - Applying the method [toLowerCase] to each character produces the same result\n
*\n * @sample samples.text.Chars.equals\n
*/\npublic fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {\n    if (this == other) return true\n
if (!ignoreCase) return false\n    if (this.toUpperCase() == other.toUpperCase()) return true\n    if
(this.toLowerCase() == other.toLowerCase()) return true\n    return false\n}\n\n/**\n * Returns `true` if this
character is a Unicode surrogate code unit.\n */\npublic fun Char.isSurrogate(): Boolean = this in
Char.MIN_SURROGATE..Char.MAX_SURROGATE\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\n\n/**\n * Trims leading whitespace characters followed by [marginPrefix] from every line of a source
string and removes\n * the first and the last lines if they are blank (notice difference blank vs empty).\n
*\n * Doesn't affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.\n *\n * Doesn't
preserve the original line endings.\n *\n * @param marginPrefix non-blank string, which is used as a margin
delimiter. Default is `|` (pipe character).\n *\n * @sample samples.text.Strings.trimMargin\n * @see trimIndent\n *
@see kotlin.text.isWhitespace\n */\npublic fun String.trimMargin(marginPrefix: String = "|"): String =\n
replaceIndentByMargin("|", marginPrefix)\n\n/**\n * Detects indent by [marginPrefix] as it does [trimMargin] and
replace it with [newIndent].\n *\n * @param marginPrefix non-blank string, which is used as a margin delimiter.
Default is `|` (pipe character).\n */\npublic fun String.replaceIndentByMargin(newIndent: String = "|",
marginPrefix: String = "|"): String {\n    require(marginPrefix.isNotBlank()) { "marginPrefix must be non-blank
string." }\n    val lines = lines()\n    return lines.reindent(length + newIndent.length
* lines.size, getIndentFunction(newIndent), { line ->\n        val firstNonWhitespaceIndex = line.indexOfFirst {
!it.isWhitespace() }\n        when {\n            firstNonWhitespaceIndex == -1 -> null\n
line.startsWith(marginPrefix, firstNonWhitespaceIndex) -> line.substring(firstNonWhitespaceIndex +
marginPrefix.length)\n            else -> null\n        }\n    })\n}\n\n/**\n * Detects a common minimal indent of all the
input lines, removes it from every line and also removes the first and the last\n * lines if they are blank (notice
difference blank vs empty).\n *\n * Note that blank lines do not affect the detected indent level.\n *\n * In case if
there are non-blank lines with no leading whitespace characters (no indent at all) then the\n * common indent is 0,
and therefore this function doesn't change the indentation.\n *\n * Doesn't preserve the original line endings.\n *\n *
@sample samples.text.Strings.trimIndent\n * @see trimMargin\n * @see kotlin.text.isBlank\n
*/\npublic fun String.trimIndent(): String = replaceIndent("|")\n\n/**\n * Detects a common minimal indent like it
does [trimIndent] and replaces it with the specified [newIndent].\n */\npublic fun String.replaceIndent(newIndent:
String = "|"): String {\n    val lines = lines()\n    val minCommonIndent = lines\n        .filter(String::isNotBlank)\n
        .map(String::indentWidth)\n        .minOrNull() ?: 0\n    return lines.reindent(length + newIndent.length *
lines.size, getIndentFunction(newIndent), { line -> line.drop(minCommonIndent) })\n}\n\n/**\n * Prepends [indent]
to every line of the original string.\n *\n * Doesn't preserve the original line endings.\n */\npublic fun
String.prependIndent(indent: String = "  "): String =\n    lineSequence()\n        .map {\n            when {\n
it.isBlank() -> {\n                when {\n                    it.length < indent.length -> indent\n
                    else -> it\n                }\n            }\n            else -> indent + it\n        }\n    }\n        .joinToString("\n")\n\nprivate fun
String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }\n\nprivate fun
getIndentFunction(indent: String) = when {\n    indent.isEmpty() -> { line: String -> line }\n    else -> { line: String -
> indent + line }\n}\n\nprivate inline fun List<String>.reindent(\n    resultSizeEstimate: Int,\n    indentAddFunction:
(String) -> String,\n    indentCutFunction: (String) -> String?): String {\n    val lastIndex = lastIndex\n    return

```

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mapIndexedNotNull { index, value ->\n    if ((index == 0 || index == lastIndex) && value.isBlank())\n
null\n    else\n        indentCutFunction(value)?.let(indentAddFunction)?: value\n    }\n
.joinTo(StringBuilder(resultSizeEstimate), "\\n\\n")\n    .toString()\n}\n", "/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.text\n\n/**\n * Defines names for Unicode symbols used in proper Typography.\n *\npublic
object Typography {\n    /** The character &#x22; \u2013 quotation mark *\n    public const val quote: Char =
"\u0022"\n    /** The character &#x24; \u2013 dollar sign *\n    public const val dollar: Char = "\u0024"\n    /** The
character &#x26; \u2013 ampersand *\n    public const val amp: Char = "\u0026"\n    /** The character &#x3C;
\u2013 less-than sign *\n    public const val less: Char = "\u003C"\n    /** The character &#x3E; \u2013 greater-
than sign *\n    public const val greater: Char = "\u003E"\n    /** The non-breaking space character *\n    public
const val nbsp: Char = "\u00A0"\n    /** The character &#xD7; *\n    public const val times: Char = "\u00D7"\n
/** The character &#xA2; *\n    public const val cent: Char = "\u00A2"\n    /** The
character &#xA3; *\n    public const val pound: Char = "\u00A3"\n    /** The character &#xA7; *\n    public const
val section: Char = "\u00A7"\n    /** The character &#xA9; *\n    public const val copyright: Char = "\u00A9"\n
/** The character &#xAB; *\n    public const val leftGuillemete: Char = "\u00AB"\n    /** The character &#xBB;
*\n    public const val rightGuillemete: Char = "\u00BB"\n    /** The character &#xAE; *\n    public const val
registered: Char = "\u00AE"\n    /** The character &#xB0; *\n    public const val degree: Char = "\u00B0"\n    /**
The character &#xB1; *\n    public const val plusMinus: Char = "\u00B1"\n    /** The character &#xB6; *\n
public const val paragraph: Char = "\u00B6"\n    /** The character &#xB7; *\n    public const val middleDot: Char
= "\u00B7"\n    /** The character &#xBD; *\n    public const val half: Char = "\u00BD"\n    /** The character
&#x2013; *\n    public const val ndash: Char = "\u2013"\n    /** The character
&#x2014; *\n    public const val mdash: Char = "\u2014"\n    /** The character &#x2018; *\n    public const val
leftSingleQuote: Char = "\u2018"\n    /** The character &#x2019; *\n    public const val rightSingleQuote: Char =
"\u2019"\n    /** The character &#x201A; *\n    public const val lowSingleQuote: Char = "\u201A"\n    /** The
character &#x201C; *\n    public const val leftDoubleQuote: Char = "\u201C"\n    /** The character &#x201D; *\n
public const val rightDoubleQuote: Char = "\u201D"\n    /** The character &#x201E; *\n    public const val
lowDoubleQuote: Char = "\u201E"\n    /** The character &#x2020; *\n    public const val dagger: Char =
"\u2020"\n    /** The character &#x2021; *\n    public const val doubleDagger: Char = "\u2021"\n    /** The
character &#x2022; *\n    public const val bullet: Char = "\u2022"\n    /** The character &#x2026; *\n    public
const val ellipsis: Char = "\u2026"\n    /** The character &#x2032; *\n    public const val
prime: Char = "\u2032"\n    /** The character &#x2033; *\n    public const val doublePrime: Char = "\u2033"\n
/** The character &#x20AC; *\n    public const val euro: Char = "\u20AC"\n    /** The character &#x2122; *\n
public const val tm: Char = "\u2122"\n    /** The character &#x2248; *\n    public const val almostEqual: Char =
"\u2248"\n    /** The character &#x2260; *\n    public const val notEqual: Char = "\u2260"\n    /** The character
&#x2264; *\n    public const val lessOrEqual: Char = "\u2264"\n    /** The character &#x2265; *\n    public const
val greaterOrEqual: Char = "\u2265"}\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\npackage kotlin.text\n\n/**\n * Represents a collection of captured groups in a
single match of a regular expression.\n *\n * This collection has size of `groupCount
+ 1` where `groupCount` is the count of groups in the regular expression.\n * Groups are indexed from 1 to
`groupCount` and group with the index 0 corresponds to the entire match.\n *\n * An element of the collection at the
particular index can be `null`,\n * if the corresponding group in the regular expression is optional and\n * there was
no match captured by that group.\n *\npublic interface MatchGroupCollection : Collection<MatchGroup?> {\n\n    /**
Returns a group with the specified [index].\n    *\n    * @return An instance of [MatchGroup] if the group with the
specified [index] was matched or `null` otherwise.\n    *\n    * Groups are indexed from 1 to the count of groups
in the regular expression. A group with the index 0\n    * corresponds to the entire match.\n    *\n    public operator
fun get(index: Int): MatchGroup?\n}\n\n/**\n * Extends [MatchGroupCollection] by introducing a way to get

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```

matched groups by name, when regex supports it.\n *\n@SinceKotlin("1.1")\npublic
interface MatchNamedGroupCollection : MatchGroupCollection {\n /**\n * Returns a named group with the
specified [name].\n * @return An instance of [MatchGroup] if the group with the specified [name] was matched
or `null` otherwise.\n * @throws IllegalArgumentException if there is no group with the specified [name] defined
in the regex pattern.\n * @throws UnsupportedOperationException if getting named groups isn't supported on the
current platform.\n *\n public operator fun get(name: String): MatchGroup?\n}\n\n/**\n * Represents the
results from a single regular expression match.\n *\npublic interface MatchResult {\n /** The range of indices in
the original string where match was captured. *\n public val range: IntRange\n /** The substring from the input
string captured by this match. *\n public val value: String\n /**\n * A collection of groups matched by the
regular expression.\n *\n * This collection has size of `groupCount
+ 1` where `groupCount` is the count of groups in the regular expression.\n * Groups are indexed from 1 to
`groupCount` and group with the index 0 corresponds to the entire match.\n *\n public val groups:
MatchGroupCollection\n /**\n * A list of matched indexed group values.\n *\n * This list has size of
`groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n * Groups are indexed
from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n *\n * If the group in the
regular expression is optional and there were no match captured by that group,\n * corresponding item in
[groupValues] is an empty string.\n *\n * @sample
samples.text.Regexps.matchDestructuringToGroupValues\n *\n public val groupValues: List<String>\n\n
/**\n * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment
of group values.\n *\n * component1
corresponds to the value of the first group, component2 \u2014 of the second, and so on.\n *\n * @sample
samples.text.Regexps.matchDestructuringToGroupValues\n *\n public val destructured: Destructured get() =
Destructured(this)\n\n /** Returns a new [MatchResult] with the results for the next match, starting at the
position\n * at which the last match ended (at the character after the last matched character).\n *\n public fun
next(): MatchResult?\n\n /**\n * Provides components for destructuring assignment of group values.\n *\n
* [component1] corresponds to the value of the first group, [component2] \u2014 of the second, and so on.\n *\n
* If the group in the regular expression is optional and there were no match captured by that group,\n *
corresponding component value is an empty string.\n *\n * @sample
samples.text.Regexps.matchDestructuringToGroupValues\n *\n public class Destructured internal
constructor(public
val match: MatchResult) {\n @kotlin.internal.InlineOnly\n public operator inline fun component1():
String = match.groupValues[1]\n @kotlin.internal.InlineOnly\n public operator inline fun component2():
String = match.groupValues[2]\n @kotlin.internal.InlineOnly\n public operator inline fun component3():
String = match.groupValues[3]\n @kotlin.internal.InlineOnly\n public operator inline fun component4():
String = match.groupValues[4]\n @kotlin.internal.InlineOnly\n public operator inline fun component5():
String = match.groupValues[5]\n @kotlin.internal.InlineOnly\n public operator inline fun component6():
String = match.groupValues[6]\n @kotlin.internal.InlineOnly\n public operator inline fun component7():
String = match.groupValues[7]\n @kotlin.internal.InlineOnly\n public operator inline fun component8():
String = match.groupValues[8]\n @kotlin.internal.InlineOnly\n
public operator inline fun component9(): String = match.groupValues[9]\n @kotlin.internal.InlineOnly\n
public operator inline fun component10(): String = match.groupValues[10]\n\n /**\n * Returns
destructured group values as a list of strings.\n * First value in the returned list corresponds to the value of the
first group, and so on.\n *\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n
*\n public fun toList(): List<String> = match.groupValues.subList(1, match.groupValues.size)\n }\n}"/*\n
Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage
kotlin.time\nimport kotlin.contracts.*\nimport kotlin.math.abs\n@OptIn(ExperimentalTime::class)\nprivate
inline val storageUnit get() = DurationUnit.NANOSECONDS\n\n/**\n

```

\* Represents the amount of time one instant of time is away from another instant.\n \* A negative duration is possible in a situation when the second instant is earlier than the first one.\n \* An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.\n \* To construct a duration use either the extension function [toDuration],\n \* or the extension properties [hours], [minutes], [seconds], and so on,\n \* available on [Int], [Long], and [Double] numeric types.\n \* To get the value of this duration expressed in a particular [duration units][DurationUnit]\n \* use the functions [toInt], [toLong], and [toDouble]\n \* or the properties [inHours], [inMinutes], [inSeconds], [inNanoseconds], and so on.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\npublic inline class Duration internal constructor(internal val value: Double) :
```

```
Comparable<Duration> {\n// TODO: backend fails on init block,\n    wait for KT-28055\n//    init {\n//        require(!_value.isNaN().not())\n//    }\n    companion object {\n        /**\n        The duration equal to exactly 0 seconds. *\n        public val ZERO: Duration = Duration(0.0)\n        /** The\n        duration whose value is positive infinity. It is useful for representing timeouts that should never expire. *\n        public val INFINITE: Duration = Duration(Double.POSITIVE_INFINITY)\n        /** Converts the given time\n        duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit]. *\n        public fun\n        convert(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double =\n        convertDurationUnit(value, sourceUnit, targetUnit)\n    }\n    // arithmetic operators\n    /** Returns the negative\n    of this value. *\n    public operator fun unaryMinus(): Duration = Duration(-value)\n    /** Returns a duration\n    whose value is the sum of this and [other] duration values. *\n    public operator\n    fun plus(other: Duration): Duration = Duration(value + other.value)\n    /** Returns a duration whose value is the\n    difference between this and [other] duration values. *\n    public operator fun minus(other: Duration): Duration =\n    Duration(value - other.value)\n    /** Returns a duration whose value is this duration value multiplied by the given\n    [scale] number. *\n    public operator fun times(scale: Int): Duration = Duration(value * scale)\n    /** Returns a\n    duration whose value is this duration value multiplied by the given [scale] number. *\n    public operator fun\n    times(scale: Double): Duration = Duration(value * scale)\n    /** Returns a duration whose value is this duration\n    value divided by the given [scale] number. *\n    public operator fun div(scale: Int): Duration = Duration(value /\n    scale)\n    /** Returns a duration whose value is this duration value divided by the given [scale] number. *\n    public operator fun div(scale: Double): Duration = Duration(value /\n    scale)\n    /** Returns a number that is the ratio of this and [other] duration values. *\n    public operator fun\n    div(other: Duration): Double = this.value / other.value\n    /** Returns true, if the duration value is less than zero.\n    *\n    public fun isNegative(): Boolean = value < 0\n    /** Returns true, if the duration value is greater than zero.\n    *\n    public fun isPositive(): Boolean = value > 0\n    /** Returns true, if the duration value is infinite. *\n    public fun isInfinite(): Boolean = value.isInfinite()\n    /** Returns true, if the duration value is finite. *\n    public\n    fun isFinite(): Boolean = value.isFinite()\n    /** Returns the absolute value of this value. The returned value is\n    always non-negative. *\n    public val absoluteValue: Duration get() = if (isNegative()) -this else this\n    override\n    fun compareTo(other: Duration): Int = this.value.compareTo(other.value)\n    // splitting to components\n    /**\n    * Splits this duration into\n    days, hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.\n    * The\n    result of [action] is returned as the result of this function.\n    * - `nanoseconds` represents the whole number\n    of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n    * - `seconds` represents the\n    whole number of seconds in this duration, and its absolute value is less than 60;\n    * - `minutes` represents the\n    whole number of minutes in this duration, and its absolute value is less than 60;\n    * - `hours` represents the whole\n    number of hours in this duration, and its absolute value is less than 24;\n    * - `days` represents the whole number\n    of days in this duration.\n    * If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less\n    than [Int.MIN_VALUE],\n    * it is coerced into that range.\n    *\n    public inline fun <T> toComponents(action:\n    (days: Int, hours: Int, minutes: Int, seconds:\n    Int, nanoseconds: Int) -> T): T {\n        contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n        return action(inDays.toInt(), hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)\n    }\n}
```

```

    }
    /**
     * Splits this duration into hours, minutes, seconds, and nanoseconds and executes the given [action]
     with these components.
     * The result of [action] is returned as the result of this function.
     * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than
     1_000_000_000;
     * - `seconds` represents the whole number of seconds in this duration, and its absolute value is
     less than 60;
     * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less
     than 60;
     * - `hours` represents the whole number of hours in this duration.
     * If the value doesn't fit in [Int]
     range, i.e. it's greater than [Int.MAX_VALUE] or less than
     [Int.MIN_VALUE],
     * it is coerced into that range.
     */
    public inline fun <T> toComponents(action:
    (hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T {
        contract { callsInPlace(action,
        InvocationKind.EXACTLY_ONCE) }
        return action(inHours.toInt(), minutesComponent, secondsComponent,
        nanosecondsComponent)
    }
    /**
     * Splits this duration into minutes, seconds, and nanoseconds and
     executes the given [action] with these components.
     * The result of [action] is returned as the result of this
     function.
     * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute
     value is less than 1_000_000_000;
     * - `seconds` represents the whole number of seconds in this duration, and its
     absolute value is less than 60;
     * - `minutes` represents the whole number of minutes in this duration.
     * If
     the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE]
     or less than [Int.MIN_VALUE],
     * it is coerced into that range.
     */
    public inline fun <T>
    toComponents(action: (minutes: Int, seconds: Int, nanoseconds: Int) -> T): T {
        contract { callsInPlace(action,
        InvocationKind.EXACTLY_ONCE) }
        return action(inMinutes.toInt(), secondsComponent,
        nanosecondsComponent)
    }
    /**
     * Splits this duration into seconds, and nanoseconds and executes the
     given [action] with these components.
     * The result of [action] is returned as the result of this function.
     * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute
     value is less than
     1_000_000_000;
     * - `seconds` represents the whole number of seconds in this duration.
     * If the value
     doesn't fit in [Long] range, i.e. it's greater than [Long.MAX_VALUE] or less than [Long.MIN_VALUE],
     * it
     is coerced into that range.
     */
    public inline fun <T> toComponents(action: (seconds:
    Long, nanoseconds: Int) -> T): T {
        contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
        return action(inSeconds.toLong(), nanosecondsComponent)
    }
    @PublishedApi
    internal val
    hoursComponent: Int get() = (inHours % 24).toInt()
    @PublishedApi
    internal val minutesComponent: Int
    get() = (inMinutes % 60).toInt()
    @PublishedApi
    internal val secondsComponent: Int get() = (inSeconds %
    60).toInt()
    @PublishedApi
    internal val nanosecondsComponent: Int get() = (inNanoseconds %
    1e9).toInt()
    /** Returns the value of this duration expressed as a [Double]
    number of the specified [unit].
    */
    public fun toDouble(unit: DurationUnit): Double = convertDurationUnit(value,
    storageUnit, unit)
    /** Returns the value of this duration expressed as a [Long] number of the specified
    [unit].
    * If the value doesn't fit in the range of [Long] type, it is coerced into that range,
    see the conversion [Double.toLong] for details.
    */
    public fun toLong(unit: DurationUnit): Long =
    toDouble(unit).toLong()
    /** Returns the value of this duration expressed as an [Int] number of the
    specified [unit].
    * If the value doesn't fit in the range of [Int] type, it is coerced into that range, see the
    conversion [Double.toInt] for details.
    */
    public fun toInt(unit: DurationUnit): Int =
    toDouble(unit).toInt()
    /** The value of this duration expressed as a [Double] number of days.
    */
    public val inDays: Double get() = toDouble(DurationUnit.DAYS)
    /** The value of this duration expressed as a [Double]
    number of hours.
    */
    public val inHours: Double get() = toDouble(DurationUnit.HOURS)
    /** The value of
    this duration expressed as a [Double] number of minutes.
    */
    public val inMinutes: Double get() =
    toDouble(DurationUnit.MINUTES)
    /** The value of this duration expressed as a [Double] number of seconds.
    */
    public val inSeconds: Double get() = toDouble(DurationUnit.SECONDS)
    /** The value of this duration
    expressed as a [Double] number of milliseconds.
    */
    public val inMilliseconds: Double get() =
    toDouble(DurationUnit.MILLISECONDS)
    /** The value of this duration expressed as a [Double] number of
    microseconds.
    */
    public val inMicroseconds: Double get() = toDouble(DurationUnit.MICROSECONDS)
    /** The value of this duration expressed as a [Double] number of nanoseconds.
    */
    public val inNanoseconds:

```

```

Double get() = toDouble(DurationUnit.NANOSECONDS)\n // shortcuts\n\n /**\n * Returns the value of
this duration expressed as a [Long] number of nanoseconds.\n *\n * If the value doesn't fit in the range of
[Long] type, it is coerced into that range, see the conversion [Double.toLong] for details.\n *\n * The range of
durations that can be expressed as a `Long` number of nanoseconds is approximately \u00b1292 years.\n */\n
public fun toLongNanoseconds(): Long = toLong(DurationUnit.NANOSECONDS)\n\n /**\n * Returns the
value of this duration expressed as a [Long] number of milliseconds.\n *\n * The value is coerced to the range
of [Long] type, if it doesn't fit in that range, see the conversion [Double.toLong] for details.\n *\n * The range
of durations that can be expressed as a `Long` number of milliseconds is approximately \u00b1292 million years.\n
*/\n
public fun toLongMilliseconds(): Long = toLong(DurationUnit.MILLISECONDS)\n\n /**\n * Returns a
string representation of this duration value expressed in the unit which yields the most compact and readable number
value.\n *\n * Special cases:\n * - zero duration is formatted as `0s`\n * - the infinite duration is
formatted as `Infinity` without unit\n * - very small durations (less than 1e-15 s) are expressed in seconds and
formatted in scientific notation\n * - very big durations
(more than 1e+7 days) are expressed in days and formatted in scientific notation\n *\n * @return the value of
duration in the automatically determined unit followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or
`ns`.\n *\n * @sample samples.time.Durations.toStringDefault\n */\n
override fun toString(): String =
when {\n    isInfinite() -> value.toString()\n    value == 0.0 -> `0s`\n    else -> {\n        val absNs =
absoluteValue.inNanoseconds\n        var scientific = false\n        var maxDecimals = 0\n        val unit = when
{\n            absNs < 1e-6 -> DurationUnit.SECONDS.also { scientific = true }\n            absNs < 1 ->
DurationUnit.NANOSECONDS.also { maxDecimals = 7 }\n            absNs < 1e3 ->
DurationUnit.NANOSECONDS\n            absNs < 1e6 -> DurationUnit.MICROSECONDS\n            absNs <
1e9 -> DurationUnit.MILLISECONDS\n            absNs < 1000e9 -> DurationUnit.SECONDS\n            absNs < 60_000e9 ->
DurationUnit.MINUTES\n            absNs < 3600_000e9 ->
DurationUnit.HOURS\n            absNs < 86400e9 * 1e7 -> DurationUnit.DAYS\n            else ->
DurationUnit.DAYS.also { scientific = true }\n        }\n        val value = toDouble(unit)\n        when {\n
            scientific -> formatScientific(value)\n            maxDecimals > 0 -> formatUpToDecimals(value,
maxDecimals)\n            else -> formatToExactDecimals(value, precision(abs(value)))\n        } +
unit.shortName()\n    }\n\n    private fun precision(value: Double): Int = when {\n        value < 1 -> 3\n
        value < 10 -> 2\n        value < 100 -> 1\n        else -> 0\n    }\n\n    /**\n * Returns a string representation of this
duration value expressed in the given [unit]\n * and formatted with the specified [decimals] number of digits after
decimal point.\n *\n * Special cases:\n * - the infinite duration
is formatted as `Infinity` without unit\n *\n * @return the value of duration in the specified [unit] followed
by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.\n *\n * @throws IllegalArgumentException
if [decimals] is less than zero.\n *\n * @sample samples.time.Durations.toStringDecimals\n */\n
public fun toString(unit: DurationUnit, decimals: Int = 0): String {\n    require(decimals >= 0) { `decimals must be not
negative, but was $decimals` }\n    if (isInfinite()) return value.toString()\n    val number = toDouble(unit)\n
return when {\n        abs(number) < 1e14 -> formatToExactDecimals(number, decimals.coerceAtMost(12))\n
        else -> formatScientific(number)\n    } + unit.shortName()\n}\n\n\n /**\n * Returns an ISO-8601 based
string representation of this duration.\n *\n * The returned value is presented in the format `PTm>s.fS`,
where `h`, `m`, `s` are the integer
components of this duration (see [toComponents])\n * and `f` is a fractional part of second. Depending on the
roundness of the value the fractional part can be formatted with either\n * 0, 3, 6, or 9 decimal digits.\n *\n *
If the hours component absolute value of this duration is greater than [Int.MAX_VALUE], it is replaced with
[Int.MAX_VALUE],\n * so the infinite duration is formatted as `PT2147483647H`.\n *\n * Negative
durations are indicated with the sign `-` in the beginning of the returned string, for example, `-PT5M30S`.\n
*\n * @sample samples.time.Durations.toIsoString\n */\n
@OptIn(ExperimentalStdlibApi::class)\n
public fun toIsoString(): String = buildString {\n    if (isNegative()) append('-')\n    append(`PT`)\n
absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->\n        val hasHours = hours != 0\n

```

```

val hasSeconds = seconds != 0 || nanoseconds != 0\n      val hasMinutes
= minutes != 0 || (hasSeconds && hasHours)\n      if (hasHours) {\n      append(hours).append('H')\n
}\n      if (hasMinutes) {\n      append(minutes).append('M')\n      }\n      if (hasSeconds ||
(!hasHours && !hasMinutes)) {\n      append(seconds)\n      if (nanoseconds != 0) {\n
append('.')\n      val nss = nanoseconds.toString().padStart(9, '0')\n      when {\n
nanoseconds % 1_000_000 == 0 -> appendRange(nss, 0, 3)\n      nanoseconds % 1_000 == 0 ->
appendRange(nss, 0, 6)\n      else -> append(nss)\n      }\n      }\n      append('S')\n
}\n      }\n      }\n\n// constructing from number of units\n// extension functions\n\n/** Returns a [Duration]
equal to this [Int] number of the specified [unit]. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic
fun Int.toDuration(unit: DurationUnit): Duration = toDouble().toDuration(unit)\n\n/** Returns a [Duration] equal to
this [Long] number of the specified [unit]. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic fun
Long.toDuration(unit: DurationUnit): Duration = toDouble().toDuration(unit)\n\n/** Returns a [Duration] equal to
this [Double] number of the specified [unit]. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic fun
Double.toDuration(unit: DurationUnit): Duration = Duration(convertDurationUnit(this, unit, storageUnit))\n\n//
constructing from number of units\n// extension properties\n\n/** Returns a [Duration] equal to this [Int] number of
nanoseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of
nanoseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns
a [Duration] equal to this [Double] number of nanoseconds.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to this [Int] number of
microseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of
microseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this [Double] number of
microseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this [Int] number of
milliseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this [Long]
number of milliseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this [Double] number of
milliseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this [Int] number of seconds.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.seconds get() =
toDuration(DurationUnit.SECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of seconds.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.seconds get() =
toDuration(DurationUnit.SECONDS)\n\n/** Returns a [Duration] equal to this [Double] number of seconds.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.seconds get() =
toDuration(DurationUnit.SECONDS)\n\n/** Returns a [Duration] equal to this [Int] number of minutes.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic
val Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Long]
number of minutes. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.minutes get() =
toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Double] number of minutes.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.minutes get() =
toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Int] number of hours.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.hours get() =
toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Long] number of hours.

```

```

*^@SinceKotlin("1.3")^@ExperimentalTime^public val Long.hours get() =
toDuration(DurationUnit.HOURS)^/^ Returns a [Duration] equal to this [Double] number of hours.
*^@SinceKotlin("1.3")^@ExperimentalTime^public val Double.hours get() =
toDuration(DurationUnit.HOURS)^/^ Returns a [Duration] equal to this [Int] number
of days.
*^@SinceKotlin("1.3")^@ExperimentalTime^public val Int.days get() =
toDuration(DurationUnit.DAYS)^/^ Returns a [Duration] equal to this [Long] number of days.
*^@SinceKotlin("1.3")^@ExperimentalTime^public val Long.days get() =
toDuration(DurationUnit.DAYS)^/^ Returns a [Duration] equal to this [Double] number of days.
*^@SinceKotlin("1.3")^@ExperimentalTime^public val Double.days get() =
toDuration(DurationUnit.DAYS)^/^ Returns a duration whose value is the specified [duration] value
multiplied by this number.
*^@SinceKotlin("1.3")^@ExperimentalTime^@kotlin.internal.InlineOnly^public
inline operator fun Int.times(duration: Duration): Duration = duration * this^/^ Returns a duration whose value
is the specified [duration] value multiplied by this number.
*^@SinceKotlin("1.3")^@ExperimentalTime^@kotlin.internal.InlineOnly^public inline operator fun
Double.times(duration: Duration): Duration = duration * this^/^internal expect
fun formatToExactDecimals(value: Double, decimals: Int): String^internal expect fun formatUpToDecimals(value:
Double, decimals: Int): String^internal expect fun formatScientific(value: Double): String", /*^ * Copyright 2010-
2019 JetBrains s.r.o. and Kotlin Programming Language contributors.^ * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.^
*^@file:kotlin.jvm.JvmMultifileClass()^@file:kotlin.jvm.JvmName("DurationUnitKt")^@package
kotlin.time^/^ The list of possible time measurement units, in which a duration can be expressed.^ *^
The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24
[HOURS].^
*^@SinceKotlin("1.3")^@ExperimentalTime^public expect enum class DurationUnit {^ / **^
* Time unit representing one nanosecond, which is 1/1000 of a microsecond.^ ^ NANOSECONDS,^
/**^
* Time unit representing one microsecond,
which is 1/1000 of a millisecond.^ ^ MICROSECONDS,^ /**^
* Time unit representing one
millisecond, which is 1/1000 of a second.^ ^ MILLISECONDS,^ /**^
* Time unit representing one
second.^ ^ SECONDS,^ /**^
* Time unit representing one minute.^ ^ MINUTES,^ /**^
* Time unit representing one hour.^ ^ HOURS,^ /**^
* Time unit representing one day, which is
always equal to 24 hours.^ ^ DAYS;^}^/^ Converts the given time duration [value] expressed in the
specified [sourceUnit] into the specified [targetUnit].
*^@SinceKotlin("1.3")^@ExperimentalTime^internal
expect fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit):
Double^/^
*^@SinceKotlin("1.3")^@ExperimentalTime^internal fun DurationUnit.shortName(): String = when
(this) {^
DurationUnit.NANOSECONDS -> "ns"^
DurationUnit.MICROSECONDS -> "us"^
DurationUnit.MILLISECONDS
-> "ms"^
DurationUnit.SECONDS -> "s"^
DurationUnit.MINUTES -> "m"^
DurationUnit.HOURS ->
"h"^
DurationUnit.DAYS -> "d"^}"/^ * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.^ * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.^
*^@package kotlin.time^import kotlin.annotation.AnnotationTarget.^
* This annotation marks the experimental preview of the standard library API for measuring time and working with
durations.^
* > Note that this API is in a preview state and has a very high chance of being changed in the
future.^
* Do not use it if you develop a library since your library will become binary incompatible^
* with the
future versions of the standard library.^
* Any usage of a declaration annotated with `@ExperimentalTime`
must be accepted either by^
* annotating that usage with the [OptIn] annotation, e.g.
`@OptIn(ExperimentalTime::class)`,^
* or by using the compiler argument `-Xopt-in=kotlin.time.ExperimentalTime`.^
*^@Suppress("DEPRECATION")^@Experimental(level =
Experimental.Level.ERROR)^@RequiresOptIn(level =

```

```

RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(\n
CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n
VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n
PROPERTY_SETTER,\n TYPEALIAS)\n\n@SinceKotlin("1.3")\n\npublic annotation class
ExperimentalTime\n, /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n/**\n * A source of time for measuring time intervals.\n
*\n * The only operation provided by the time source is [markNow]. It returns a [TimeMark], which can be used to
query the elapsed
time later.\n *\n * @see [measureTime]\n * @see [measureTimedValue]\n
*\n\n@SinceKotlin("1.3")\n\n@ExperimentalTime\n\npublic interface TimeSource {\n
/*\n *\n * Marks a point in
time on this time source.\n
*\n *\n * The returned [TimeMark] instance encapsulates the captured time point and
allows querying\n
*\n *\n * the duration of time interval [elapsed][TimeMark.elapsedNow] from that point.\n
*\n\npublic fun markNow(): TimeMark\n\n
/*\n *\n * The most precise time source available in the platform.\n
*\n
*\n * This time source returns its readings from a source of monotonic time when it is available in a target platform,\n
*\n * and resorts to a non-monotonic time source otherwise.\n
*\n\npublic object Monotonic : TimeSource by
MonotonicTimeSource {\n
override fun toString(): String = MonotonicTimeSource.toString()\n
}\n\n\npublic companion object {\n\n
}\n\n}\n\n/**\n * Represents a time point notched on a particular [TimeSource].
Remains bound
to the time source it was taken from\n
*\n * and allows querying for the duration of time elapsed from that point (see
the function [elapsedNow]).\n
*\n\n@SinceKotlin("1.3")\n\n@ExperimentalTime\n\npublic abstract class TimeMark
{\n
/*\n *\n * Returns the amount of time passed from this mark measured with the time source from which this
mark was taken.\n
*\n *\n * Note that the value returned by this function can change on subsequent invocations.\n
*\n\npublic abstract fun elapsedNow(): Duration\n\n
/*\n *\n * Returns a time mark on the same time source that
is ahead of this time mark by the specified [duration].\n
*\n *\n * The returned time mark is more _late_ when the
[duration] is positive, and more _early_ when the [duration] is negative.\n
*\n\npublic open operator fun
plus(duration: Duration): TimeMark = AdjustedTimeMark(this, duration)\n\n
/*\n *\n * Returns a time mark on
the same time source that is behind this time mark by the specified [duration].\n
*\n *\n * The returned time mark is more _early_ when the [duration] is positive, and more _late_ when the
[duration] is negative.\n
*\n\npublic open operator fun minus(duration: Duration): TimeMark = plus(-
duration)\n\n\n
/*\n *\n * Returns true if this time mark has passed according to the time source from which this
mark was taken.\n
*\n *\n * Note that the value returned by this function can change on subsequent invocations.\n
*\n * If the time source is monotonic, it can change only from `false` to `true`, namely, when the time mark becomes
behind the current point of the time source.\n
*\n\npublic fun hasPassedNow(): Boolean =
!elapsedNow().isNegative()\n\n
/*\n *\n * Returns false if this time mark has not passed according to the time
source from which this mark was taken.\n
*\n *\n * Note that the value returned by this function can change on
subsequent invocations.\n
*\n * If the time source is monotonic, it can change only from `true` to
`false`, namely, when the time mark becomes behind the current point of the time source.\n
*\n\npublic fun
hasNotPassedNow(): Boolean =
elapsedNow().isNegative()\n\n}\n\n\n@ExperimentalTime\n\n@SinceKotlin("1.3")\n\n@kotlin.internal.InlineOnly\n\n@
Deprecated(\n
"Subtracting one TimeMark from another is not a well defined operation because these time marks
could have been obtained from the different time sources.",\n
level =
DeprecationLevel.ERROR)\n\n@Suppress("UNUSED_PARAMETER")\n\npublic inline operator fun
TimeMark.minus(other: TimeMark): Duration = throw Error("Operation is
disallowed.")\n\n\n@ExperimentalTime\n\n@SinceKotlin("1.3")\n\n@kotlin.internal.InlineOnly\n\n@Deprecated(\n
"Comparing one TimeMark to another is not a well defined operation because these time marks could have been
obtained from the different time sources.",\n
level =
DeprecationLevel.ERROR)\n\n@Suppress("UNUSED_PARAMETER")\n\npublic inline operator fun

```

```

TimeMark.compareTo(other: TimeMark): Int = throw
Error("Operation is disallowed.")\n\n\n@ExperimentalTime\nprivate class AdjustedTimeMark(val mark:
TimeMark, val adjustment: Duration) : TimeMark() {\n    override fun elapsedNow(): Duration =
mark.elapsedNow() - adjustment\n    override fun plus(duration: Duration): TimeMark =
AdjustedTimeMark(mark, adjustment +
duration)\n}\n\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TimeSource interface
instead.", ReplaceWith("TimeSource", "kotlin.time.TimeSource"), DeprecationLevel.ERROR)\npublic typealias
Clock = TimeSource\n\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TimeMark class
instead.", ReplaceWith("TimeMark", "kotlin.time.TimeMark"), DeprecationLevel.ERROR)\npublic typealias
ClockMark = TimeMark\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal
expect object MonotonicTimeSource : TimeSource\n\n\n/**\n * An abstract class used to implement time sources
that return their readings as [Long] values in the specified [unit].\n *\n * @property unit The unit in which this time
source's readings are expressed.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic abstract class
AbstractLongTimeSource(protected val unit: DurationUnit) : TimeSource {\n    /**\n     * This protected method
should be overridden to return the current reading of the time source expressed as a [Long] number\n     * in the unit
specified by the [unit] property.\n     */\n    protected abstract fun read(): Long\n\n    private class
LongTimeMark(private val startedAt: Long, private val timeSource: AbstractLongTimeSource, private val offset:
Duration) : TimeMark() {\n        override fun elapsedNow(): Duration = (timeSource.read() -
startedAt).toDuration(timeSource.unit) - offset\n        override fun plus(duration:
Duration): TimeMark = LongTimeMark(startedAt, timeSource, offset + duration)\n    }\n\n    override fun
markNow(): TimeMark = LongTimeMark(read(), this, Duration.ZERO)\n}\n\n\n/**\n * An abstract class used to
implement time sources that return their readings as [Double] values in the specified [unit].\n *\n * @property unit
The unit in which this time source's readings are expressed.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic abstract class AbstractDoubleTimeSource(protected val
unit: DurationUnit) : TimeSource {\n    /**\n     * This protected method should be overridden to return the current
reading of the time source expressed as a [Double] number\n     * in the unit specified by the [unit] property.\n     */\n    protected abstract fun read(): Double\n\n    private class
DoubleTimeMark(private val startedAt: Double,
private val timeSource: AbstractDoubleTimeSource, private val offset: Duration) : TimeMark() {\n        override fun
elapsedNow(): Duration = (timeSource.read()
- startedAt).toDuration(timeSource.unit) - offset\n        override fun plus(duration: Duration): TimeMark =
DoubleTimeMark(startedAt, timeSource, offset + duration)\n    }\n\n    override fun markNow(): TimeMark =
DoubleTimeMark(read(), this, Duration.ZERO)\n}\n\n\n/**\n * A time source that has programmatically updatable
readings. It is useful as a predictable source of time in tests.\n *\n * The current reading value can be advanced by
the specified duration amount with the operator [plusAssign]:\n *\n * val timeSource = TestTimeSource()\n *
timeSource += 10.seconds\n *\n * Implementation note: the current reading value is stored as a [Long]
number of nanoseconds,\n * thus it's capable to represent a time range of approximately \u00b11292 years.\n *
Should the reading value overflow as the result of [plusAssign] operation, an [IllegalStateException] is thrown.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic class TestTimeSource : AbstractLongTimeSource(unit
= DurationUnit.NANOSECONDS) {\n    private var reading: Long = 0L\n\n    override fun read(): Long =
reading\n\n    /**\n     * Advances the current reading value of this time source by the specified [duration].\n     */\n    * [duration] value is rounded down towards zero when converting it to a [Long] number of nanoseconds.\n     * For
example, if the duration being added is `0.6.nanoseconds`, the reading doesn't advance because\n     * the duration
value is rounded to zero nanoseconds.\n     */\n    * @throws IllegalStateException when the reading value
overflows as the result of this operation.\n     */\n    public operator fun plusAssign(duration: Duration) {\n        val
delta = duration.toDouble(unit)\n        val longDelta = delta.toLong()\n        reading = if (longDelta !=
Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {\n            // when delta fits in long, add it as long\n

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    val newReading = reading + longDelta\n        if (reading xor longDelta >= 0 &&
reading xor newReading < 0) overflow(duration)\n        newReading\n    } else {\n        // when delta is
greater than long, add it as double\n        val newReading = reading + delta\n        if (newReading >
Long.MAX_VALUE || newReading < Long.MIN_VALUE) overflow(duration)\n        newReading.toLong()\n
}\n    }\n    private fun overflow(duration: Duration) {\n        throw IllegalStateException("TestTimeSource will
overflow if its reading ${reading}ns is advanced by $duration.")\n
}\n}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TimeSource.Monotonic instead.",
ReplaceWith("TimeSource.Monotonic", "kotlin.time.TimeSource"), DeprecationLevel.ERROR)\npublic
typealias MonoClock =
TimeSource.Monotonic\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
AbstractLongTimeSource instead.", ReplaceWith("AbstractLongTimeSource",
"kotlin.time.AbstractLongTimeSource"), DeprecationLevel.ERROR)\npublic typealias AbstractLongClock
= AbstractLongTimeSource\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
AbstractDoubleTimeSource instead.", ReplaceWith("AbstractDoubleTimeSource",
"kotlin.time.AbstractDoubleTimeSource"), DeprecationLevel.ERROR)\npublic typealias AbstractDoubleClock =
AbstractDoubleTimeSource\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TestTimeSource
instead.", ReplaceWith("TestTimeSource", "kotlin.time.TestTimeSource"), DeprecationLevel.ERROR)\npublic
typealias TestClock = TestTimeSource\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.contracts.*\n\n/**\n * Executes the given
function [block] and returns the duration of elapsed time interval.\n * The elapsed time is measured with
[TimeSource.Monotonic].\n */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic
inline fun measureTime(block: () -> Unit): Duration {\n    contract {\n        callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n    }\n    return TimeSource.Monotonic.measureTime(block)\n}\n\n/**\n *
Executes the given function [block] and returns the duration of elapsed time interval.\n * The elapsed time is
measured with the specified `this` [TimeSource] instance.\n */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic
inline fun TimeSource.measureTime(block: () -> Unit):
Duration {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    val mark =
markNow()\n    block()\n    return mark.elapsedNow()\n}\n\n/**\n * Data class representing a result of executing
an action, along with the duration of elapsed time interval.\n * The elapsed time is measured with the specified
`this` [TimeSource] instance.\n * @property value the result of the action.\n * @property duration the time
elapsed to execute the action.\n */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic data class TimedValue<T>(val value: T, val
duration: Duration)\n\n/**\n * Executes the given function [block] and returns an instance of [TimedValue] class,
containing both\n * the result of the function execution and the duration of elapsed time interval.\n * The elapsed
time is measured with [TimeSource.Monotonic].\n */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline
fun <T> measureTimedValue(block: () -> T): TimedValue<T> {\n    contract {\n        callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n    }\n    return
TimeSource.Monotonic.measureTimedValue(block)\n}\n\n/**\n * Executes the given [block] and returns an
instance of [TimedValue] class, containing both\n * the result of function execution and the duration of elapsed time
interval.\n * The elapsed time is measured with the specified `this` [TimeSource] instance.\n */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun <T> TimeSource.measureTimedValue(block: ()
-> T): TimedValue<T> {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n
}\n    val mark = markNow()\n    val result = block()\n    return TimedValue(result,
mark.elapsedNow())\n}\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.coroutines.*\n\nimport
kotlin.coroutines.intrinsics.*\n\n/**\n * Defines deep recursive function that keeps its stack on the heap,\n * which
allows very deep recursive computations that do not use the actual call stack.\n * To initiate a call to this deep

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Comparable<KotlinVersion> {\n    /**\n     * Creates a version from [major] and [minor] components, leaving
[patch] component zero.\n     */\n    public constructor(major: Int, minor: Int) : this(major, minor, 0)\n\n    private val
version = versionOf(major, minor, patch)\n\n    private fun versionOf(major: Int, minor: Int, patch: Int): Int {\n
require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE &&
patch in 0..MAX_COMPONENT_VALUE) {\n        \"Version components are out of range:
$major.$minor.$patch\"\n    }\n    return major.shl(16) + minor.shl(8) + patch\n }\n\n    /**\n     * Returns the
string representation of this version\n     */\n    override fun toString(): String = \"$major.$minor.$patch\"\n\n
override fun equals(other: Any?): Boolean {\n    if (this === other) return true\n    val otherVersion = (other as?
KotlinVersion) ?: return false\n    return this.version == otherVersion.version\n }\n\n    override fun hashCode():
Int = version\n\n    override fun compareTo(other: KotlinVersion): Int = version - other.version\n\n    /**\n     *
Returns `true` if this version is not less than the version specified\n     * with the provided [major] and [minor]
components.\n     */\n    public fun isAtLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major,
minor, 0)\n    this.major > major || (this.major == major &&\n
        this.minor >= minor)\n\n    /**\n     * Returns `true` if this version is not less than the version specified\n     *
with the provided [major], [minor] and [patch] components.\n     */\n    public fun isAtLeast(major: Int, minor: Int,
patch: Int): Boolean = // this.version >= versionOf(major, minor, patch)\n    this.major > major || (this.major ==
major &&\n        (this.minor > minor || this.minor == minor &&\n            this.patch >= patch))\n\n
companion object {\n    /**\n     * Maximum value a version component can have, a constant value 255.\n     */\n    //
NOTE: Must be placed before CURRENT because its initialization requires this field being initialized in
JS\n    public const val MAX_COMPONENT_VALUE = 255\n\n    /**\n     * Returns the current version of
the Kotlin standard library.\n     */\n    @kotlin.jvm.JvmField\n    public val CURRENT: KotlinVersion =
KotlinVersionCurrentValue.get()\n }\n\n//
this class is ignored during classpath normalization when considering whether to recompile dependencies in Kotlin
build\nprivate object KotlinVersionCurrentValue {\n    @kotlin.jvm.JvmStatic\n    fun get(): KotlinVersion =
KotlinVersion(1, 4, 20) // value is written here automatically during build\n}, /*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName(\"LateinitKt\")\n@file:Suppress(\"unused\")\n\npackage kotlin\n\nimport
kotlin.internal.InlineOnly\nimport kotlin.internal.AccessibleLateinitPropertyLiteral\nimport
kotlin.reflect.KProperty0\n\n/**\n * Returns `true` if this lateinit property has been assigned a value, and `false`
otherwise.\n * Cannot be used in an inline function, to avoid binary compatibility issues.\n
*/\n\n@SinceKotlin(\"1.2\")\n@InlineOnly\ninline val @receiver: AccessibleLateinitPropertyLiteral
KProperty0<*>.isInitialized: Boolean\n    get() = throw NotImplementedError(\"Implementation is
intrinsic\")\n}, /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName(\"LazyKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin\n\nimport
kotlin.reflect.KProperty\n\n/**\n * Represents a value with lazy initialization.\n * To create an instance of
[Lazy] use the [lazy] function.\n */\n\npublic interface Lazy<out T> {\n    /**\n     * Gets the lazily initialized value of
the current Lazy instance.\n     * Once the value was initialized it must not change during the rest of lifetime of this
Lazy instance.\n     */\n    public val value: T\n\n    /**\n     * Returns `true` if a value for this Lazy instance has been
already initialized, and `false` otherwise.\n     * Once this
function has returned `true` it stays `true` for the rest of lifetime of this Lazy instance.\n     */\n    public fun
isInitialized(): Boolean\n}\n\n/**\n * Creates a new instance of the [Lazy] that is already initialized with the
specified [value].\n */\n\npublic fun <T> lazyOf(value: T): Lazy<T> = InitializedLazyImpl(value)\n\n/**\n * An
extension to delegate a read-only property of type [T] to an instance of [Lazy].\n * This extension allows to use
instances of Lazy for property delegation:\n * `val property: String by lazy { initializer }`\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Lazy<T>.getValue(thisRef: Any?, property:
KProperty<*>): T = value\n\n/**\n * Specifies how a [Lazy] instance synchronizes initialization among multiple

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threads.\n *\npublic enum class LazyThreadSafetyMode {\n\n /**\n * Locks are used to ensure that only a
single thread can initialize the [Lazy] instance.\n *\n SYNCHRONIZED,\n\n /**\n * Initializer function
can be called several times on concurrent access to uninitialized [Lazy] instance value,\n * but only the first
returned value will be used as the value of [Lazy] instance.\n *\n PUBLICATION,\n\n /**\n * No locks are
used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple threads, its
behavior is undefined.\n *\n * This mode should not be used unless the [Lazy] instance is guaranteed never to
be initialized from more than one thread.\n *\n NONE,\n}\n\n\ninternal object
UNINITIALIZED_VALUE\n\n// internal to be called from lazy in JS\n\ninternal class UnsafeLazyImpl<out
T>(initializer: () -> T) : Lazy<T>, Serializable {\n private var initializer: (() -> T)? = initializer\n private var
_value: Any? = UNINITIALIZED_VALUE\n\n override val value: T\n get() {\n if (_value ===
UNINITIALIZED_VALUE) {\n _value = initializer!!()\n initializer = null\n
}\n @Suppress("UNCHECKED_CAST")\n return _value as T\n }\n\n override fun
isInitialized(): Boolean = _value !== UNINITIALIZED_VALUE\n\n override fun toString(): String = if
(isInitialized()) value.toString() else "Lazy value not initialized yet."\n\n private fun writeReplace(): Any =
InitializedLazyImpl(value)\n}\n\n\ninternal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>,
Serializable {\n\n override fun isInitialized(): Boolean = true\n\n override fun toString(): String =
value.toString()\n}\n\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("NumbersKt")\npackage kotlin\n\n/**\n *
Counts the number of set bits in the binary representation of this [Int] number.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
expect fun Int.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in
the binary representation of this [Int] number.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that are zero in
the binary representation of this [Int] number.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [Int] number,\n * or zero, if this number is zero.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.takeHighestOneBit(): Int\n\n/**\n * Returns a number having a single bit set in the position of the least
significant set bit of this
[Int] number,\n * or zero, if this number is zero.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.takeLowestOneBit(): Int\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified
[bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least
significant bits on the right side.\n * Rotating the number left by a negative bit count is the same as rotating it
right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple
of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) ==
number.rotateLeft(n % 32)`\n *\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun
Int.rotateLeft(bitCount: Int): Int\n\n/**\n * Rotates the binary representation of this [Int] number right by the
specified [bitCount] number of bits.\n * The least significant bits pushed
out from the right side reenter the number as the most significant bits on the left side.\n * Rotating the number
right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) ==
number.rotateLeft(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more
generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Int.rotateRight(bitCount: Int):

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Int\n\n/**\n * Counts the number of set bits in the binary representation of this [Long] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [Long] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.countLeadingZeroBits(): Int\n\n/**\n
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long]
number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [Long] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.takeHighestOneBit(): Long\n\n/**\n * Returns a number having a single bit set in the position of the least
significant set bit of this [Long] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.takeLowestOneBit(): Long\n\n/**\n * Rotates the binary representation of this [Long] number left by the
specified [bitCount] number of bits.\n * The most significant bits pushed out from the
left side reenter the number as the least significant bits on the right side.\n * Rotating the number left by a
negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) ==
number.rotateRight(n)`\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more
generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.rotateLeft(bitCount: Int):
Long\n\n/**\n * Rotates the binary representation of this [Long] number right by the specified [bitCount] number of
bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on
the left side.\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated
bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of
[Long.SIZE_BITS] (64) returns the same number,
or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.rotateRight(bitCount: Int):
Long\n\n/**\n * Counts the number of set bits in the binary representation of this [Byte] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()\n\n/**\n * Counts the number of
consecutive most significant bits that are zero in the binary representation of this [Byte] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS -
Byte.SIZE_BITS)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary
representation of this [Byte] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c
inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()\n\n/**\n * Returns a
number having a single bit set in the position of the most significant set bit of this [Byte] number,\n * or zero, if this
number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()\n\n/**\n * Returns a
number having a single bit set in the position of the least significant set bit of this [Byte] number,\n * or zero, if this
number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()\n\n/**\n * Rotates the binary
representation of this [Byte] number left by the specified [bitCount] number of

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bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the
right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit
count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Byte.SIZE_BITS]
(8) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun Byte.rotateLeft(bitCount: Int): Byte =\n(toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and 7))).toByte()\n\n/**\n * Rotates the binary
representation of this [Byte] number right by the specified [bitCount] number of bits.\n * The least significant bits
pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the
number right by a negative bit count is the same as rotating it left by the negated
bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of
[Byte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateRight(n) ==
number.rotateRight(n % 8)`\n *\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun
Byte.rotateRight(bitCount: Int): Byte =\n (toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and
7)).toByte()\n\n/**\n * Counts the number of set bits in the binary representation of this [Short] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()\n\n/**\n * Counts the number of
consecutive most significant bits that are zero in the binary representation of this [Short] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.countLeadingZeroBits(): Int =\n
(toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Short.SIZE_BITS)\n\n/**\n * Counts the number
of consecutive least significant bits that are zero in the binary representation of this [Short] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()\n\n/**\n * Returns a
number having a single bit set in the position of the most significant set bit of this [Short] number,\n * or zero, if this
number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\n\n/**\n *
Returns a number having a single bit set in the position of the least significant set bit of this [Short] number,\n * or
zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c
inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\n\n/**\n * Rotates the binary
representation of this [Short] number left by the specified [bitCount] number of bits.\n * The most significant bits
pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the
number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-
n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or
more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun Short.rotateLeft(bitCount: Int): Short =\n
(toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()\n\n/**\n * Rotates the
binary representation of this [Short] number right by
the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the
number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the
same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n *
Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally\n *
`number.rotateRight(n) == number.rotateRight(n % 16)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun Short.rotateRight(bitCount: Int): Short =\n
(toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()\n\n", "/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed

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by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\nimport
kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\n\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.2")\n@Suppress("IN
VISIBLE_MEMBER",
"INVISIBLE_REFERENCE")\n@RequireKotlin("1.2.30", level = DeprecationLevel.HIDDEN, versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\npublic inline fun <R> suspend(noinline block: suspend () ->
R): suspend () -> R = block\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("TuplesKt")\n\npackage kotlin\n\n/**\n *
Represents a generic pair of two values.\n *\n * There is no meaning attached to values in this class, it can be used
for any purpose.\n *\n * Pair exhibits value semantics, i.e. two pairs are equal if both components are equal.\n *\n * An
example of decomposing it into values:\n *\n * @sample samples.misc.Tuples.pairDestructuring\n *\n * @param A
type of the first value.\n
* @param B type of the second value.\n *\n * @property first First value.\n *\n * @property second Second value.\n *\n
* @constructor Creates a new instance of Pair.\n */\n\npublic data class Pair<out A, out B>(\n    public val first: A,\n
public val second: B\n) : Serializable {\n\n    /**\n     * Returns string representation of the [Pair] including its [first]
and [second] values.\n     */\n    public override fun toString(): String = "\($first, $second)\n"}\n\n/**\n * Creates a
tuple of type [Pair] from this and [that].\n *\n * This can be useful for creating [Map] literals with less noise, for
example:\n *\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\n */\n\npublic infix fun <A, B>
A.to(that: B): Pair<A, B> = Pair(this, that)\n\n/**\n * Converts this pair into a list.\n *\n * @sample
samples.misc.Tuples.pairToList\n */\n\npublic fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\n\n/**\n *
Represents a triad of values\n *\n * There is no meaning attached to values in this class,
it can be used for any purpose.\n *\n * Triple exhibits value semantics, i.e. two triples are equal if all three components
are equal.\n *\n * An example of decomposing it into values:\n *\n * @sample samples.misc.Tuples.tripleDestructuring\n
*\n * @param A type of the first value.\n *\n * @param B type of the second value.\n *\n * @param C type of the third
value.\n *\n * @property first First value.\n *\n * @property second Second value.\n *\n * @property third Third value.\n
*\n * @public data class Triple<out A, out B, out C>(\n    public val first: A,\n    public val second: B,\n    public val
third: C\n) : Serializable {\n\n    /**\n     * Returns string representation of the [Triple] including its [first], [second]
and [third] values.\n     */\n    public override fun toString(): String = "\($first, $second, $third)\n"}\n\n/**\n *
Converts this triple into a list.\n *\n * @sample samples.misc.Tuples.tripleToList\n */\n\npublic fun <T> Triple<T, T,
T>.toList(): List<T> = listOf(first, second, third)\n", /*\n * Copyright
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT
EDIT!\n\npackage kotlin.ranges\n\n\nimport kotlin.internal.*\n\n/**\n * A range of values of type `UInt`.\n
*\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n */\n\npublic class UIntRange(start: UInt, endInclusive: UInt)
: UIntProgression(start, endInclusive, 1), ClosedRange<UInt> {\n    override val start: UInt get() = first\n    override
val endInclusive: UInt get() = last\n\n    override fun contains(value: UInt): Boolean = first <= value && value <=
last\n\n    override fun isEmpty(): Boolean = first > last\n\n    override fun equals(other: Any?): Boolean =\n
other is UIntRange && (isEmpty() && other.isEmpty()) ||\n        first == other.first && last == other.last\n\n
override fun hashCode(): Int =\n    if (isEmpty()) -1 else
(31 * first.toInt() + last.toInt())\n\n    override fun toString(): String = "\$first..$last"\n\n    companion object {\n
/**\n     * An empty range of values of type UInt. *\n     */\n    public val EMPTY: UIntRange =
UIntRange(UInt.MAX_VALUE, UInt.MIN_VALUE)\n    }\n}\n\n/**\n * A progression of values of type `UInt`.\n
*\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n */\n\npublic open class UIntProgression\n\ninternal
constructor(\n    start: UInt,\n    endInclusive: UInt,\n    step: Int\n) : Iterable<UInt> {\n    init {\n        if (step ==
0.toInt()) throw kotlin.IllegalArgumentException("Step must be non-zero.")\n        if (step == Int.MIN_VALUE)\n            throw
kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to avoid overflow on
negation.")\n    }\n\n    /**\n     * The first element in the progression.\n     */\n    public val first: UInt = start\n

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32)).toInt())\n\n    override fun toString(): String = \"$first..$last\"\n\n    companion object {\n        /** An empty
range of values of type ULong. */\n        public val EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE,
ULong.MIN_VALUE)\n    }\n}\n\n/**\n * A progression of values of type `ULong`.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic open class ULongProgression\ninternal
constructor(\n    start: ULong,\n    endInclusive: ULong,\n    step: Long\n) : Iterable<ULong> {\n    init {\n        if
(step == 0.toLong()) throw kotlin.IllegalArgumentException("Step must be non-zero.")\n        if (step ==
Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Long.MIN_VALUE to
avoid overflow on negation.")\n    }\n\n    /**\n     * The first element in the progression.\n     */\n    public val first:
ULong = start\n\n    /**\n     * The last element in the progression.\n     */\n    public val last: ULong =
getProgressionLastElement(start,
endInclusive, step)\n\n    /**\n     * The step of the progression.\n     */\n    public val step: Long = step\n\n
override fun iterator(): ULongIterator = ULongProgressionIterator(first, last, step)\n\n    /** Checks if the
progression is empty. */\n    public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n
override fun equals(other: Any?): Boolean =\n    other is ULongProgression && (isEmpty() && other.isEmpty())
||\n    first == other.first && last == other.last && step == other.step\n\n    override fun hashCode(): Int =\n    if (isEmpty()) -1 else (31 * (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step
ushr 32)).toInt())\n\n    override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo
$last step ${-step}\"\n\n    companion object {\n        /**\n         * Creates ULongProgression within the specified
bounds of a closed range.\n         *\n         * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with
the specified [step].\n         * In order to go backwards the [step] must be negative.\n         * [step] must be
greater than `Long.MIN_VALUE` and not equal to zero.\n         */\n        public fun fromClosedRange(rangeStart:
ULong, rangeEnd: ULong, step: Long): ULongProgression = ULongProgression(rangeStart, rangeEnd, step)\n    }\n}\n\n/**\n * An iterator over a progression of values of type `ULong`.\n */\n@property step the number by which
the value is incremented on each step.\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\nprivate class
ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {\n    private val finalElement =
last\n    private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n    private val step =
step.toULong() // use 2-complement math for negative steps\n    private var next = if
(hasNext) first else finalElement\n\n    override fun hasNext(): Boolean = hasNext\n\n    override fun nextULong():
ULong {\n        val value = next\n        if (value == finalElement) {\n            if (!hasNext) throw
kotlin.NoSuchElementException()\n            hasNext = false\n        } else {\n            next += step\n        }\n    }\n    return value\n}\n}\n\n"/**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.math\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun min(a:
UInt, b: UInt): UInt {\n    return minOf(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun min(a:
ULong, b: ULong): ULong {\n    return minOf(a, b)\n}\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun max(a:
UInt, b: UInt): UInt {\n    return maxOf(a, b)\n}\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun max(a:
ULong, b: ULong): ULong {\n    return maxOf(a, b)\n}\n\n"/**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("UNumbersKt")\npackage
kotlin\n\n/**\n * Counts the number of set bits in the binary representation of this [UInt] number.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UInt.countOneBits(): Int = toInt().countOneBits()\n\n/**\n

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* Counts the number of consecutive most significant bits that are zero in the binary representation of this [UInt]
number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UInt.countLeadingZeroBits(): Int =
toInt().countLeadingZeroBits()\n\n**\n * Counts the number of consecutive least significant bits that are zero in the
binary representation of this [UInt] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UInt.countTrailingZeroBits(): Int =
toInt().countTrailingZeroBits()\n\n**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic
inline fun UInt.takeHighestOneBit(): UInt = toInt().takeHighestOneBit().toUInt()\n\n**\n * Returns a number
having a single bit set in the position of the least significant set bit of this [UInt] number,\n * or zero, if this number
is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UInt.takeLowestOneBit(): UInt =
toInt().takeLowestOneBit().toUInt()\n\n**\n * Rotates the binary representation of this [UInt] number left by the
specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as
the least significant bits on the right side.\n * \n * Rotating the number left by a negative bit count is the same as
rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * \n * Rotating by a
multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n)
== number.rotateLeft(n % 32)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UInt.rotateLeft(bitCount: Int): UInt = toInt().rotateLeft(bitCount).toUInt()\n\n**\n * Rotates
the binary representation of this [UInt] number right by the specified [bitCount] number of bits.\n * The least
significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n * \n *
Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n * \n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns
the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UInt.rotateRight(bitCount: Int): UInt = toInt().rotateRight(bitCount).toUInt()\n\n**\n
* Counts the number of set bits in the binary representation of this [ULong] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULong.countOneBits(): Int = toLong().countOneBits()\n\n**\n *
Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong]
number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULong.countLeadingZeroBits(): Int =
toLong().countLeadingZeroBits()\n\n**\n * Counts the number of consecutive least significant bits that are zero in
the binary representation of this [ULong] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULong.countTrailingZeroBits():
Int = toLong().countTrailingZeroBits()\n\n**\n * Returns a number having a single bit set in the position of the
most significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULong.takeHighestOneBit(): ULong =
toLong().takeHighestOneBit().toULong()\n\n**\n * Returns a number having a single bit set in the position of the

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least significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULong.takeLowestOneBit(): ULong =
toLong().takeLowestOneBit().toULong()\n\n/**\n * Rotates the binary representation of this [ULong] number left
by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter
the number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is
the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\n *
`number.rotateLeft(n) == number.rotateLeft(n % 64)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong()\n\n/**\n *
Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits.\n * The
least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n
*\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n
*\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\n *
`number.rotateRight(n) == number.rotateRight(n % 64)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong()\n\n/**\n
 * Counts the number of set bits in the binary representation of this [UByte] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UByte.countOneBits(): Int = toUInt().countOneBits()\n\n/**\n *
Counts the number of consecutive most significant bits that are zero in the binary representation of this [UByte]
number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UByte.countLeadingZeroBits(): Int =
toByte().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UByte]
number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UByte.countTrailingZeroBits(): Int =
toByte().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UByte.takeHighestOneBit(): UByte =
toInt().takeHighestOneBit().toUByte()\n\n/**\n * Returns a number having a single bit set in the position of the least
significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic
inline fun UByte.takeLowestOneBit(): UByte = toInt().takeLowestOneBit().toUByte()\n\n/**\n * Rotates the
binary representation of this [UByte] number left by the specified [bitCount] number of bits.\n * The most
significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n
*\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n *
`number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns
the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UByte.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte()\n\n/**\n
 * Rotates the binary representation of this [UByte] number

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right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter
the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is
the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n *
Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n *
`number.rotateRight(n) == number.rotateRight(n % 8)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly
\npublic inline fun UByte.rotateRight(bitCount: Int): UByte = toByte().rotateRight(bitCount).toUByte()\n\n**\n *
Counts the number of set bits in the binary representation of this [UShort] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UShort.countOneBits(): Int = toUInt().countOneBits()\n\n**\n
* Counts the number of consecutive most significant bits that are zero in the binary representation of this [UShort]
number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UShort.countLeadingZeroBits(): Int =
toShort().countLeadingZeroBits()\n\n**\n * Counts the number of consecutive least significant bits that are zero in
the binary representation of this [UShort] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UShort.countTrailingZeroBits(): Int =
toShort().countTrailingZeroBits()\n\n**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic
inline fun UShort.takeHighestOneBit(): UShort = toInt().takeHighestOneBit().toUShort()\n\n**\n * Returns a
number having a single bit set in the position of the least significant set bit of this [UShort] number,\n * or zero, if
this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UShort.takeLowestOneBit(): UShort =
toInt().takeLowestOneBit().toUShort()\n\n**\n * Rotates the binary representation of this [UShort] number left
by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the
number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the
same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n *
Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same
number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly
\npublic inline fun UShort.rotateLeft(bitCount: Int): UShort = toShort().rotateLeft(bitCount).toUShort()\n\n**\n *
Rotates the binary representation of this [UShort] number right by the specified [bitCount] number of bits.\n * The
least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n
*\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UShort.SIZE_BITS] (16)
returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly
\npublic inline fun
UShort.rotateRight(bitCount: Int): UShort = toShort().rotateRight(bitCount).toUShort()\n\n**\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@n\n@file:OptIn(ExperimentalUnsignedTypes::class)\npackage kotlin.internal\n\n// (a - b) mod c\nprivate fun
differenceModulo(a: UInt, b: UInt, c: UInt): UInt {\n    val ac = a % c\n    val bc = b % c\n    return if (ac >= bc) ac -
bc else ac - bc + c\n}\n\nprivate fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {\n    val ac = a %

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c\n  val bc = b % c\n  return if (ac >= bc) ac - bc else ac - bc + c\n}\n\n/**\n * Calculates the final element of a
bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end]
in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on
passed parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and
`start <= end`,\n *\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n *
@param end ending bound for the progression\n * @param step increment, or difference of successive elements in
the progression\n * @return the final element of the progression\n * @suppress\n
*/\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun getProgressionLastElement(start: UInt, end: UInt, step:
Int): UInt = when {\n  step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())\n
step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())\n  else -> throw
kotlin.IllegalArgumentException("Step is zero.")\n}\n\n/**\n * Calculates the final element of a bounded
arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case
of a positive
[step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed parameters is
performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <= end`,\n *\n * - or
`step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end ending bound
for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return
the final element of the progression\n * @suppress\n
*/\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun
getProgressionLastElement(start: ULong, end: ULong, step: Long): ULong = when {\n  step > 0 -> if (start >= end)
end else end - differenceModulo(end, start, step.toULong())\n  step < 0 -> if (start <= end) end else end +
differenceModulo(start, end, (-step).toULong())\n  else -> throw kotlin.IllegalArgumentException("Step is
zero.")\n}\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("UStringsKt") // string representation of unsigned
numbers\n\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Byte] value in the specified
[radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string
conversion.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic
/*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string
representation of this [Short] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix]
is not a valid radix for number to string conversion.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun
UShort.toString(radix: Int): String = this.toInt().toString(radix)\n\n\n/**\n * Returns a string representation of
this [Int] value in the specified [radix].\n *\n * @throws
IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun
UInt.toString(radix: Int): String = this.toLong().toString(radix)\n\n\n/**\n * Returns a string representation of
this [Long] value in the specified [radix].\n *\n * @throws
IllegalArgumentException when [radix] is not a valid radix
for number to string conversion.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))\n\n\n/**\n * Parses the string
as a signed [UByte] number and returns the result.\n *\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
String.toUByte(): UByte = toUByteOrNull()\n\n?: numberFormatException(this)\n\n/**\n * Parses the string as a signed [UByte] number and returns the result.\n *\n * @throws NumberFormatException if the string is not a valid representation of a number.\n *\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUByte(radix: Int): UByte =
toUByteOrNull(radix) ?: numberFormatException(this)\n\n\n/**\n * Parses the string as a [UShort] number and returns
the result.\n *\n * @throws NumberFormatException if the string is not a valid representation of a number.\n
*/

```

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun String.toUShort(): UShort =
toUShortOrNull() ?: numberFormatException(this)^n/^**^n * Parses the string as a [UShort] number and returns the
result.^n * @throws NumberFormatException if the string is not a valid representation of a number.^n * @throws
IllegalArgumentException when [radix] is not a valid radix
for string to number conversion.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatException(this)^n/^**^n * Parses the
string as an [UInt] number and returns the result.^n * @throws NumberFormatException if the string is not a valid
representation of a number.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
String.toUInt(): UInt = toUIntOrNull() ?: numberFormatException(this)^n/^**^n * Parses the string as an [UInt] number
and returns the result.^n * @throws NumberFormatException if the string is not a valid representation of a
number.^n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun String.toUInt(radix: Int): UInt =
toUIntOrNull(radix) ?: numberFormatException(this)^n/^**^n * Parses the string as a [ULong] number and returns the
result.^n * @throws NumberFormatException
if the string is not a valid representation of a number.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun String.toULong(): ULong =
toULongOrNull() ?: numberFormatException(this)^n/^**^n * Parses the string as a [ULong] number and returns the
result.^n * @throws NumberFormatException if the string is not a valid representation of a number.^n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun String.toULong(radix: Int): ULong =
toULongOrNull(radix) ?: numberFormatException(this)^n^n^n/^**^n * Parses the string as an [UByte] number and
returns the result^n * or `null` if the string is not a valid representation of a number.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun String.toUByteOrNull(): UByte? =
toUByteOrNull(radix = 10)^n/^**^n * Parses the string as an [UByte] number and returns the result^n * or `null` if
the
string is not a valid representation of a number.^n *^n * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public
fun String.toUByteOrNull(radix: Int): UByte? {^n val int = this.toUIntOrNull(radix) ?: return null^n if (int >
UByte.MAX_VALUE) return null^n return int.toUByte()^n}^n/^**^n * Parses the string as an [UShort] number
and returns the result^n * or `null` if the string is not a valid representation of a number.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun String.toUShortOrNull(): UShort? =
toUShortOrNull(radix = 10)^n/^**^n * Parses the string as an [UShort] number and returns the result^n * or `null` if
the string is not a valid representation of a number.^n *^n * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public
fun String.toUShortOrNull(radix:
Int): UShort? {^n val int = this.toUIntOrNull(radix) ?: return null^n if (int > UShort.MAX_VALUE) return
null^n return int.toUShort()^n}^n/^**^n * Parses the string as an [UInt] number and returns the result^n * or `null`
if the string is not a valid representation of a number.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun String.toUIntOrNull(): UInt? =
toUIntOrNull(radix = 10)^n/^**^n * Parses the string as an [UInt] number and returns the result^n * or `null` if
the string is not a valid representation of a number.^n *^n * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public
fun String.toUIntOrNull(radix: Int): UInt? {^n checkRadix(radix)^n^n val length = this.length^n if (length == 0)
return null^n^n val limit: UInt = UInt.MAX_VALUE^n val start: Int^n val firstChar = this[0]^n if (firstChar
< '0')
{^n if (length == 1 || firstChar != '+') return null^n start = 1^n } else {^n start = 0^n }^n^n val
limitForMaxRadix = 119304647u // limit / 36^n var limitBeforeMul = limitForMaxRadix^n val uradix =
radix.toUInt()^n var result = 0u^n for (i in start until length) {^n val digit = digitOf(this[i], radix)^n^n if

```

```

(digit < 0) return null\n    if (result > limitBeforeMul) {\n        if (limitBeforeMul == limitForMaxRadix) {\n            limitBeforeMul = limit / uradix\n        }\n    } else {\n        return null\n    }\n\n    result *= uradix\n    val beforeAdding = result\n    result += digit.toInt()\n    if (result < beforeAdding) return null // overflow has happened\n\n    return result\n}\n\n/**\n * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toULongOrNull(): ULong? =\n    toULongOrNull(radix = 10)\n\n/**\n * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a\n * valid radix for string to number conversion.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toULongOrNull(radix: Int): ULong? {\n    checkRadix(radix)\n\n    val length = this.length\n    if (length == 0) return null\n\n    val limit: ULong = ULong.MAX_VALUE\n    val start: Int\n    val firstChar = this[0]\n    if (firstChar < '0') {\n        if (length == 1 || firstChar != '+') return null\n        start = 1\n    } else {\n        start = 0\n    }\n\n    val limitForMaxRadix = 512409557603043100uL // limit / 36\n    var limitBeforeMul =\n        limitForMaxRadix\n\n    val uradix = radix.toULong()\n    var result = 0uL\n    for (i in start until length) {\n        val digit = digitOf(this[i],\n            radix)\n\n        if (digit < 0) return null\n        if (result > limitBeforeMul) {\n            if (limitBeforeMul ==\n                limitForMaxRadix) {\n                limitBeforeMul = limit / uradix\n            }\n            return null\n        } else {\n            result *= uradix\n            val beforeAdding = result\n            result += digit.toInt()\n            if (result < beforeAdding) return null // overflow\n            has happened\n        }\n\n        return result\n    }\n\n    return result\n}\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming\n * Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n * license/LICENSE.txt file.\n */\n@file:Suppress("INVISIBLE_REFERENCE",\n    "INVISIBLE_MEMBER")\npackage kotlin\n\nimport\n    kotlin.annotation.AnnotationTarget\n\nimport kotlin.internal.RequireKotlin\n\nimport\n    kotlin.internal.RequireKotlinVersionKind\n\n/**\n * Marks the API that is dependent on the experimental unsigned\n * types, including those types themselves.\n * Usages of such API will be reported as warnings unless an explicit\n * opt-in with\n * the [OptIn] annotation, e.g. `@OptIn(ExperimentalUnsignedTypes::class)`\n * or with the `-Xopt-in=kotlin.ExperimentalUnsignedTypes` compiler option is given.\n * It's recommended to propagate the\n * experimental status to the API that depends on unsigned types by annotating it with this annotation.\n */\n@Suppress("DEPRECATION")\n@Experimental(level =\n    Experimental.Level.WARNING)\n@RequiresOptIn(level =\n    RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Target(CLASS, ANNOTATION_CLASS,\n    PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION,\n    PROPERTY_GETTER, PROPERTY_SETTER,\n    TYPEALIAS)\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin("1.2.50",\n    versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class\n    ExperimentalUnsignedTypes\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language\n * contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n * license/LICENSE.txt file.\n */\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MathKt")\npackage\n    kotlin.math\n\n// constants, can't use them from nativeMath as they are not constants there\n\n/**\n * Ratio of the\n * circumference of a circle to its diameter, approximately 3.14159. */\n@SinceKotlin("1.2")\npublic const val PI:\n    Double = 3.141592653589793\n\n/**\n * Base of the natural logarithms, approximately 2.71828. */\n@SinceKotlin("1.2")\npublic const val E: Double = 2.718281828459045\n\n// region =====\nDouble Math =====\n\n/**\n * Computes the sine of the angle [x]\n * given in radians.\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)`

```

is `NaN` `SinceKotlin("1.2")` public expect fun `sin(x: Double): Double` Computes the cosine of the angle [x] given in radians. Special cases: `-cos(NaN|+Inf|-Inf)` is `NaN`

`SinceKotlin("1.2")` public expect fun `cos(x: Double): Double` Computes the tangent of the angle [x] given in radians. Special cases: `-tan(NaN|+Inf|-Inf)` is `NaN`

`SinceKotlin("1.2")` public expect fun `tan(x: Double): Double` Computes the arc sine of the value [x]; the returned value is an angle in the range from `-PI/2` to `PI/2` radians. Special cases: `-asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`

`SinceKotlin("1.2")` public expect fun `asin(x: Double): Double` Computes the arc cosine of the value [x]; the returned value is an angle in the range from `0.0` to `PI` radians. Special cases: `-acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`

`SinceKotlin("1.2")` public expect fun `acos(x: Double): Double` Computes the arc tangent of the value [x]; the returned value is an angle in the range from `-PI/2` to `PI/2` radians. Special cases: `-atan(NaN)` is `NaN`

`SinceKotlin("1.2")` public expect fun `atan(x: Double): Double` Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond to the rectangular coordinates `(x, y)` by computing the arc tangent of the value `[y] / [x]`; the returned value is an angle in the range from `-PI` to `PI` radians. Special cases: `-atan2(0.0, 0.0)` is `0.0`; `-atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`; `-atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI` for `x < 0`; `-atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0`; `-atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`; `-atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`; `-atan2(+Inf, x)` is `PI/2` for finite `x`; `-atan2(-Inf, x)` is `-PI/2` for finite `x`; `-atan2(NaN, x)` and `-atan2(y, NaN)` is `NaN`

`SinceKotlin("1.2")` public expect fun `atan2(y: Double, x: Double): Double` Computes the hyperbolic sine of the value [x]. Special cases: `-sinh(NaN)` is `NaN`; `-sinh(+Inf)` is `+Inf`; `-sinh(-Inf)` is `-Inf`

`SinceKotlin("1.2")` public expect fun `sinh(x: Double): Double` Computes the hyperbolic cosine of the value [x]. Special cases: `-cosh(NaN)` is `NaN`; `-cosh(+Inf|-Inf)` is `+Inf`

`SinceKotlin("1.2")` public expect fun `cosh(x: Double): Double` Computes the hyperbolic tangent of the value [x]. Special cases: `-tanh(NaN)` is `NaN`; `-tanh(+Inf)` is `1.0`; `-tanh(-Inf)` is `-1.0`

`SinceKotlin("1.2")` public expect fun `tanh(x: Double): Double` Computes the inverse hyperbolic sine of the value [x]. The returned value is `y` such that `sinh(y) == x`. Special cases: `-asinh(NaN)` is `NaN`; `-asinh(+Inf)` is `+Inf`; `-asinh(-Inf)` is `-Inf`

`SinceKotlin("1.2")` public expect fun `asinh(x: Double): Double` Computes the inverse hyperbolic cosine of the value [x]. The returned value is positive `y` such that `cosh(y) == x`. Special cases: `-acosh(NaN)` is `NaN`; `-acosh(x)` is `NaN` when `x < 1`; `-acosh(+Inf)` is `+Inf`

`SinceKotlin("1.2")` public expect fun `acosh(x: Double): Double` Computes the inverse hyperbolic tangent of the value [x]. The returned value is `y` such that `tanh(y) == x`. Special cases: `-tanh(NaN)` is `NaN`; `-tanh(x)` is `NaN` when `x > 1` or `x < -1`; `-tanh(1.0)` is `+Inf`; `-tanh(-1.0)` is `-Inf`

`SinceKotlin("1.2")` public expect fun `atanh(x: Double): Double` Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow. Special cases: returns `+Inf` if any of arguments is infinite; returns `NaN` if any of arguments is `NaN` and the other is not infinite

`SinceKotlin("1.2")` public expect fun `hypot(x: Double, y: Double): Double` Computes the positive square root of the value [x]. Special cases: `-sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`

`SinceKotlin("1.2")` public expect fun `sqrt(x: Double): Double` Computes Euler's number `e` raised to the power of the value [x]. Special cases: `-exp(NaN)` is `NaN`; `-exp(+Inf)` is `+Inf`; `-exp(-Inf)` is `0.0`

`SinceKotlin("1.2")` public expect fun `exp(x: Double): Double` Computes `exp(x) - 1`. This function can be implemented to produce more precise result for [x] near zero. Special cases: `-expm1(NaN)` is `NaN`; `-expm1(+Inf)` is `+Inf`; `-expm1(-Inf)` is `-1.0`

`SinceKotlin("1.2")` public expect fun `expm1(x: Double): Double` Computes the logarithm of the value [x] to the given [base]. Special cases: `-log(x, b)` is `NaN` if either `x` or `b` are `NaN`; `-log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`; `-log(+Inf, +Inf)`

`is NaN` \* `-log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1` \* `-log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1` \* See also logarithm functions for common fixed bases: `[ln]`, `[log10]` and `[log2]`.

`@SinceKotlin("1.2")` public expect fun `log(x: Double, base: Double): Double` \* Computes the natural logarithm (base `E`) of the value `[x]`. \* Special cases: \* `-ln(NaN)` is `NaN` \* `-ln(x)` is `NaN` when `x < 0.0` \* `-ln(+Inf)` is `+Inf` \* `-ln(0.0)` is `-Inf`

`@SinceKotlin("1.2")` public expect fun `ln(x: Double): Double` \* Computes the common logarithm (base 10) of the value `[x]`. \* @see `[ln]` function for special cases.

`@SinceKotlin("1.2")` public expect fun `log10(x: Double): Double` \* Computes the binary logarithm (base 2) of the value `[x]`. \* @see `[ln]` function for special cases.

`@SinceKotlin("1.2")` public expect fun `log2(x: Double): Double` \* Computes `ln(x + 1)`. \* This function can be implemented to produce more precise result for `[x]` near zero. \* Special cases: \* `-ln1p(NaN)` is `NaN` \* `-ln1p(x)` is `NaN` where `x < -1.0` \* `-ln1p(-1.0)` is `-Inf` \* `-ln1p(+Inf)` is `+Inf` \* @see `[ln]` function \* @see `[expm1]` function

`@SinceKotlin("1.2")` public expect fun `ln1p(x: Double): Double` \* Rounds the given value `[x]` to an integer towards positive infinity. \* @return the smallest double value that is greater than or equal to the given value `[x]` and is a mathematical integer. \* Special cases: \* `-ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2")` public expect fun `ceil(x: Double): Double` \* Rounds the given value `[x]` to an integer towards negative infinity. \* @return the largest double value that is smaller than or equal to the given value `[x]` and is a mathematical integer. \* Special cases: \* `-floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2")` public expect fun `floor(x: Double): Double` \* Rounds the given value `[x]` to an integer towards zero. \* @return the value `[x]` having its fractional part truncated. \* Special cases: \* `-truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2")` public expect fun `truncate(x: Double): Double` \* Rounds the given value `[x]` towards the closest integer with ties rounded towards even integer. \* Special cases: \* `-round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2")` public expect fun `round(x: Double): Double` \* Returns the absolute value of the given value `[x]`. \* Special cases: \* `-abs(NaN)` is `NaN` \* @see `absoluteValue` extension property for `[Double]`

`@SinceKotlin("1.2")` public expect fun `abs(x: Double): Double` \* Returns the sign of the given value `[x]`: \* `-1.0` if the value is negative, \* `0.0` if the value is zero, \* `1.0` if the value is positive \* Special case: \* `-sign(NaN)` is `NaN`

`@SinceKotlin("1.2")` public expect fun `sign(x: Double): Double` \* Returns the smaller of two values. \* If either value is `NaN`, then the result is `NaN`.

`@SinceKotlin("1.2")` public expect fun `min(a: Double, b: Double): Double` \* Returns the greater of two values. \* If either value is `NaN`, then the result is `NaN`.

`@SinceKotlin("1.2")` public expect fun `max(a: Double, b: Double): Double` // extensions \* Raises this value to the power `[x]`. \* Special cases: \* `-b.pow(0.0)` is `1.0` \* `-b.pow(1.0) == b` \* `-b.pow(NaN)` is `NaN` \* `-NaN.pow(x)` is `NaN` for `x != 0.0` \* `-b.pow(Inf)` is `NaN` for `abs(b) == 1.0` \* `-b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer

`@SinceKotlin("1.2")` public expect fun `Double.pow(x: Double): Double` \* Raises this value to the integer power `[n]`. \* See the other overload of `[pow]` for details.

`@SinceKotlin("1.2")` public expect fun `Double.pow(n: Int): Double` \* Returns the absolute value of this value. \* Special cases: \* `-NaN.absoluteValue` is `NaN` \* @see `abs` function

`@SinceKotlin("1.2")` public expect val `Double.absoluteValue: Double` \* Returns the sign of this value: \* `-1.0` if the value is negative, \* `0.0` if the value is zero, \* `1.0` if the value is positive \* Special case: \* `-NaN.sign` is `NaN`

`@SinceKotlin("1.2")` public expect val `Double.sign: Double` \* Returns this value with the sign bit same as of the `[sign]` value. \* If `[sign]` is `NaN` the sign of the result is undefined.

`@SinceKotlin("1.2")` public expect fun `Double.withSign(sign: Double): Double` \* Returns this value with the sign bit same as of the `[sign]` value.

`@SinceKotlin("1.2")` public expect fun `Double.withSign(sign: Int): Double` \* Returns the ulp (unit in the last place) of this value. \* An ulp is a positive distance

between this value and the next nearest [Double] value larger in magnitude.

`*\n * Special Cases:`  
`\n * - `NaN.ulp``  
`is `NaN``  
`\n * - `x.ulp`` is ``+Inf`` when ``x`` is ``+Inf`` or ``-Inf``  
`\n * - `0.0.ulp`` is ``Double.MIN_VALUE``  
`*\n@SinceKotlin("1.2")\npublic expect val Double.ulp: Double\n\n/**\n * Returns the [Double] value nearest to`  
`this value in direction`  
`of positive infinity.\n *\n@SinceKotlin("1.2")\npublic expect fun Double.nextUp(): Double\n\n/**\n * Returns`  
`the [Double] value nearest to this value in direction of negative infinity.\n *\n@SinceKotlin("1.2")\npublic expect`  
`fun Double.nextDown(): Double\n\n/**\n * Returns the [Double] value nearest to this value in direction from this`  
`value towards the value [to].\n *\n * Special cases:`  
`\n * - `x.nextTowards(y)`` is ``NaN`` if either ``x`` or ``y`` are  
``NaN``  
`\n * - `x.nextTowards(x) == x``  
`*\n *\n@SinceKotlin("1.2")\npublic expect fun Double.nextTowards(to:`  
`Double): Double\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Int].\n *`  
`Ties are rounded towards positive infinity.\n *\n * Special cases:`  
`\n * - `x.roundToInt() == Int.MAX_VALUE``  
`when `x > Int.MAX_VALUE``  
`\n * - `x.roundToInt() == Int.MIN_VALUE`` when ``x < Int.MIN_VALUE``  
`\n *\n * @throws IllegalArgumentException when this value is `NaN``  
`*\n@SinceKotlin("1.2")\npublic expect`  
`fun Double.roundToInt(): Int\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to`  
`[Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:`  
`\n * - `x.roundToLong() ==`  
`Long.MAX_VALUE`` when ``x > Long.MAX_VALUE``  
`\n * - `x.roundToLong() == Long.MIN_VALUE`` when ``x`  
`< Long.MIN_VALUE``  
`\n *\n * @throws IllegalArgumentException when this value is `NaN``  
`*\n@SinceKotlin("1.2")\npublic expect fun Double.roundToLong(): Long\n\n// endregion`  
`==== Float Math =====\n\n/** Computes the`  
`sine of the angle [x] given in radians.\n *\n * Special cases:`  
`\n * - `sin(NaN|+Inf|-Inf)`` is ``NaN``  
`*\n@SinceKotlin("1.2")\npublic expect fun sin(x: Float): Float\n\n/** Computes the cosine of the angle [x] given`  
`in radians.\n *\n * Special cases:`  
`\n * - `cos(NaN|+Inf|-Inf)`` is ``NaN``  
`*\n@SinceKotlin("1.2")\npublic expect`  
`fun cos(x: Float): Float\n\n/** Computes the tangent of the angle`  
`[x] given in radians.\n *\n * Special cases:`  
`\n * - `tan(NaN|+Inf|-Inf)`` is ``NaN``  
`*\n@SinceKotlin("1.2")\npublic expect fun tan(x: Float): Float\n\n/** Computes the arc sine of the value`  
`[x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:`  
`\n * -`  
``asin(x)`` is ``NaN``, when ``abs(x) > 1`` or `x` is ``NaN``  
`*\n@SinceKotlin("1.2")\npublic expect fun asin(x: Float):`  
`Float\n\n/** Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `0.0``  
`to `PI` radians.\n *\n * Special cases:`  
`\n * - `acos(x)`` is ``NaN``, when ``abs(x) > 1`` or `x` is ``NaN``  
`*\n@SinceKotlin("1.2")\npublic expect fun acos(x: Float): Float\n\n/** Computes the arc tangent of the value`  
`[x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:`  
`\n * -`  
``atan(NaN)`` is ``NaN``  
`*\n@SinceKotlin("1.2")\npublic expect fun atan(x: Float): Float\n\n/** Returns the`  
`angle `theta` of the polar coordinates `(r, theta)` that correspond`  
`to the rectangular coordinates `(x, y)` by`  
`computing the arc tangent of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to `PI``  
`radians.\n *\n * Special cases:`  
`\n * - `atan2(0.0, 0.0)`` is ``0.0``  
`\n * - `atan2(0.0, x)`` is ``0.0`` for ``x > 0`` and ``PI`` for  
``x < 0``  
`\n * - `atan2(-0.0, x)`` is ``-0.0`` for ``x > 0`` and ``-PI`` for ``x < 0``  
`\n * - `atan2(y, +Inf)`` is ``0.0`` for ``0 < y <`  
`+Inf`` and ``-0.0`` for ``-Inf < y < 0``  
`\n * - `atan2(y, -Inf)`` is ``PI`` for ``0 < y < +Inf`` and ``-PI`` for ``-Inf < y < 0``  
`\n * -`  
``atan2(y, 0.0)`` is ``PI/2`` for ``y > 0`` and ``-PI/2`` for ``y < 0``  
`\n * - `atan2(+Inf, x)`` is ``PI/2`` for finite ``x``  
`\n * -`  
``atan2(-Inf, x)`` is ``-PI/2`` for finite ``x``  
`\n * - `atan2(NaN, x)`` and ``atan2(y, NaN)`` is ``NaN``  
`*\n@SinceKotlin("1.2")\npublic expect fun atan2(y: Float, x: Float): Float\n\n/** Computes the hyperbolic`  
`sine of the value [x].\n *\n * Special cases:`  
`\n * - `sinh(NaN)``  
`is `NaN``  
`\n * - `sinh(+Inf)`` is ``+Inf``  
`\n * - `sinh(-Inf)`` is ``-Inf``  
`*\n@SinceKotlin("1.2")\npublic expect fun`  
`sinh(x: Float): Float\n\n/** Computes the hyperbolic cosine of the value [x].\n *\n * Special cases:`  
`\n * -`  
``cosh(NaN)`` is ``NaN``  
`\n * - `cosh(+Inf|-Inf)`` is ``+Inf``  
`*\n@SinceKotlin("1.2")\npublic expect fun cosh(x:`  
`Float): Float\n\n/** Computes the hyperbolic tangent of the value [x].\n *\n * Special cases:`  
`\n * - `tanh(NaN)``  
`is `NaN``  
`\n * - `tanh(+Inf)`` is ``1.0``  
`\n * - `tanh(-Inf)`` is ``-1.0``  
`*\n@SinceKotlin("1.2")\npublic expect fun`  
`tanh(x: Float): Float\n\n/** Computes the inverse hyperbolic sine of the value [x].\n *\n * The returned value is`  
``y` such that `sinh(y) == x`.  
\n *\n * Special cases:  
\n * - `asinh(NaN)` is `NaN`  
\n * - `asinh(+Inf)` is `+Inf`  
\n * -`

`asinh(-Inf)` is `-Inf`.  
`asinh(x: Float): Float` Computes the inverse hyperbolic cosine of the value `[x]`.  
 The returned value is positive `y` such that `cosh(y) == x`.  
 Special cases:  
`acosh(NaN)` is `NaN`  
`acosh(x)` is `NaN` when `x < 1`.  
`acosh(+Inf)` is `+Inf`.  
`acosh(x: Float): Float` Computes the inverse hyperbolic tangent of the value `[x]`.  
 The returned value is `y` such that `tanh(y) == x`.  
 Special cases:  
`tanh(NaN)` is `NaN`  
`tanh(x)` is `NaN` when `x > 1` or `x < -1`.  
`tanh(1.0)` is `+Inf`  
`tanh(-1.0)` is `-Inf`.  
`atanh(x: Float): Float` Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.  
 Special cases:  
 - returns `+Inf` if any of arguments is infinite  
 - returns `NaN` if any of arguments is `NaN` and the other is not infinite.  
`hypot(x: Float, y: Float): Float` Computes the positive square root of the value `[x]`.  
 Special cases:  
`sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`.  
`sqrt(x: Float): Float` Computes Euler's number `e` raised to the power of the value `[x]`.  
 Special cases:  
`exp(NaN)` is `NaN`  
`exp(+Inf)` is `+Inf`  
`exp(-Inf)` is `0.0`.  
`exp(x: Float): Float` Computes `exp(x) - 1`.  
 This function can be implemented to produce more precise result for `[x]` near zero.  
 Special cases:  
`expm1(NaN)` is `NaN`  
`expm1(+Inf)` is `+Inf`  
`expm1(-Inf)` is `-1.0`.  
 @see `[exp]` function.  
`expm1(x: Float): Float` Computes the logarithm of the value `[x]` to the given `[base]`.  
 Special cases:  
`log(x, b)` is `NaN` if either `x` or `b` are `NaN`.  
`log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`.  
`log(+Inf, +Inf)` is `NaN`  
`log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`.  
`log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`.  
 See also logarithm functions for common fixed bases: `[ln]`, `[log10]` and `[log2]`.  
`log(x: Float, base: Float): Float` Computes the natural logarithm (base `E`) of the value `[x]`.  
 Special cases:  
`ln(NaN)` is `NaN`  
`ln(x)` is `NaN` when `x < 0.0`.  
`ln(+Inf)` is `+Inf`  
`ln(0.0)` is `-Inf`.  
`ln(x: Float): Float` Computes the common logarithm (base 10) of the value `[x]`.  
 @see `[ln]` function for special cases.  
`log10(x: Float): Float` Computes the binary logarithm (base 2) of the value `[x]`.  
 @see `[ln]` function for special cases.  
`log2(x: Float): Float` Computes `ln(a + 1)`.  
 This function can be implemented to produce more precise result for `[x]` near zero.  
 Special cases:  
`ln1p(NaN)` is `NaN`  
`ln1p(x)` is `NaN` where `x < -1.0`.  
`ln1p(-1.0)` is `-Inf`  
`ln1p(+Inf)` is `+Inf`.  
 @see `[ln]` function  
 @see `[expm1]` function.  
`ln1p(x: Float): Float` Rounds the given value `[x]` to an integer towards positive infinity.  
 @return the smallest `Float` value that is greater than or equal to the given value `[x]` and is a mathematical integer.  
 Special cases:  
`ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.  
`ceil(x: Float): Float` Rounds the given value `[x]` to an integer towards negative infinity.  
 @return the largest `Float` value that is smaller than or equal to the given value `[x]` and is a mathematical integer.  
 Special cases:  
`floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.  
`floor(x: Float): Float` Rounds the given value `[x]` to an integer towards zero.  
 @return the value `[x]` having its fractional part truncated.  
 Special cases:  
`truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.  
`truncate(x: Float): Float` Rounds the given value `[x]` towards the closest integer with ties rounded towards even integer.  
 Special cases:  
`round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.  
`round(x: Float): Float` Returns the absolute value of the given value `[x]`.  
 Special cases:  
`abs(NaN)` is `NaN`.  
 @see `absoluteValue` extension property for `[Float]`.  
`abs(x: Float): Float`

abs(x: Float): Float\n\n/\*\*\n \* Returns the sign of the given value [x]:\n \* - -1.0` if the value is negative,\n \* - zero if the value is zero,\n \* - `1.0` if the value is positive\n \* \n \* Special case:\n \* - `sign(NaN)` is `NaN`\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun sign(x: Float): Float\n\n/\*\*\n \* Returns the smaller of two values.\n \* \n \* If either value is `NaN`, then the result is `NaN`.\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun min(a: Float, b: Float): Float\n\n/\*\*\n \* Returns the greater of two values.\n \* \n \* If either value is `NaN`, then the result is `NaN`.\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun max(a: Float, b: Float): Float\n\n// extensions\n\n/\*\*\n \* Raises this value to the power [x].\n \* \n \* Special cases:\n \* - `b.pow(0.0)` is `1.0`\n \* - `b.pow(1.0) == b`\n \* - `b.pow(NaN)` is `NaN`\n \* - `NaN.pow(x)` is `NaN` for `x != 0.0`\n \* - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n \* - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun Float.pow(x: Float): Float\n\n/\*\*\n \* Raises this value to the integer power [n].\n \* \n \* See the other overload of [pow] for details.\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun Float.pow(n: Int): Float\n\n/\*\*\n \* Returns the absolute value of this value.\n \* \n \* Special cases:\n \* - `NaN.absoluteValue` is `NaN`\n \* \n \* @see abs function\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect val Float.absoluteValue: Float\n\n/\*\*\n \* Returns the sign of this value:\n \* \n \* - -1.0` if the value is negative,\n \* - zero if the value is zero,\n \* - `1.0` if the value is positive\n \* \n \* Special case:\n \* - `NaN.sign` is `NaN`\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect val Float.sign: Float\n\n/\*\*\n \* Returns this value with the sign bit same as of the [sign] value.\n \* \n \* If [sign] is `NaN` the sign of the result is undefined.\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun Float.withSign(sign: Float): Float\n\n/\*\*\n \* Returns this value with the sign bit same as of the [sign] value.\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun Float.withSign(sign: Int): Float\n\n/\*\*\n \* Rounds this [Float] value to the nearest integer and converts the result to [Int].\n \* \n \* Ties are rounded towards positive infinity.\n \* \n \* Special cases:\n \* - `x.roundToInt() == Int.MAX\_VALUE` when `x > Int.MAX\_VALUE`\n \* - `x.roundToInt() == Int.MIN\_VALUE` when `x < Int.MIN\_VALUE`\n \* \n \* @throws IllegalArgumentException when this value is `NaN`\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun Float.roundToInt(): Int\n\n/\*\*\n \* Rounds this [Float] value to the nearest integer and converts the result to [Long].\n \* \n \* Ties are rounded towards positive infinity.\n \* \n \* Special cases:\n \* - `x.roundToLong() == Long.MAX\_VALUE` when `x > Long.MAX\_VALUE`\n \* - `x.roundToLong() == Long.MIN\_VALUE` when `x < Long.MIN\_VALUE`\n \* \n \* @throws IllegalArgumentException when this value is `NaN`\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun Float.roundToLong(): Long\n\n// endregion\n\n// ===== Integer Math =====\n\n/\*\*\n \* Returns the absolute value of the given value [n].\n \* \n \* Special cases:\n \* - `abs(Int.MIN\_VALUE)` is `Int.MIN\_VALUE` due to an overflow\n \* \n \* @see absoluteValue extension property for [Int]\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun abs(n: Int): Int\n\n/\*\*\n \* Returns the smaller of two values.\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun min(a: Int, b: Int): Int\n\n/\*\*\n \* Returns the greater of two values.\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun max(a: Int, b: Int): Int\n\n/\*\*\n \* Returns the absolute value of this value.\n \* \n \* Special cases:\n \* - `Int.MIN\_VALUE.absoluteValue` is `Int.MIN\_VALUE` due to an overflow\n \* \n \* @see abs function\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect val Int.absoluteValue: Int\n\n/\*\*\n \* Returns the sign of this value:\n \* \n \* - -1` if the value is negative,\n \* - `0` if the value is zero,\n \* - `1` if the value is positive\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect val Int.sign: Int\n\n/\*\*\n \* Returns the absolute value of the given value [n].\n \* \n \* Special cases:\n \* - `abs(Long.MIN\_VALUE)` is `Long.MIN\_VALUE` due to an overflow\n \* \n \* @see absoluteValue extension property for [Long]\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun abs(n: Long): Long\n\n/\*\*\n \* Returns the smaller of two values.\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun min(a: Long, b: Long): Long\n\n/\*\*\n \* Returns the greater of two values.\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect fun max(a: Long, b: Long): Long\n\n/\*\*\n \* Returns the absolute value of this value.\n \* \n \* Special cases:\n \* - `Long.MIN\_VALUE.absoluteValue` is `Long.MIN\_VALUE` due to an overflow\n \* \n \* @see abs function\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect val Long.absoluteValue: Long\n\n/\*\*\n \* Returns the sign of this value:\n \* \n \* - -1` if the value is negative,\n \* - `0` if the value is zero,\n \* \n \* @SinceKotlin("1.2")\n \*/\npublic expect val Long.sign: Long

- `1` if the value is positive\n \*/\n@SinceKotlin("1.2")\npublic expect val Long.sign: Int\n\n/\nendregion\n"],"names":[],"mappings":":AAWC,CAXA,yB;EACG,IAAI,OAAO,MAAO,KAAI,UAAW,IAAG,MAA  
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,C;;QA1ST,OA4SO,W;O;KAtTX,C;uFAaA,yB;MAAA,wE;MA4SA,+D;MA5SA,yD;QAUW,kBAAU,oB;QA4SD,  
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;;UYymCA,iB;UACA,IAAK,WajCyD,cAiCrD,CAAe,OAAf,CAAJ,C;;QAjCT,OAmCO,W;O;KA7CX,C;0FAaA,y  
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B,C;UAAgB,yB;UACZ,UAAU,YAAAY,OAAZ,C;UZ7mCP,U;UADP,YY+mCe,WZ/mCH,WY+mCwB,GZ/mCxB,  
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;;YAEA,c;;UYymCA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KafX,C;4FAkBA,yB;M  
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FtxDT,EEsxDmB,CftxDnB,C;;QMkIZ,OJspDO,Q;O;KInqDX,C;mFAGBA,yB;MJspDA,sE;MFhzDA,iB;MM0JA,s  
C;QJmqDI,eItpDO,iBjSpDQ,W;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eIxpDqB,QJwpD  
N,CAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QI1pDiB,QJ0pDT,CAAS,QAAS,OAAIB,C;UA  
CR,WfzzDG,MAAK,KEyzDS,QFzzDT,EEyzDmB,CFzzDnB,C;;QM8JZ,OJ6pDO,Q;O;KI1qDX,C;mFAGBA,yB;  
MJ6pDA,sE;MI7pDA,sC;QJwqDI,eI7pDO,iBj6pDQ,W;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;  
QAC/B,eI/pDqB,QJ+pDN,CAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIjqDiB,QJiqDT,CAA  
S,QAAS,OAAIB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QInqDnB,OJsqDO,Q;O;KIjrDX,C;+  
FAcA,yB;MN5KA,iB;MM4KA,sC;QAWmB,kBAAR,iB;QAAQ,sB;;UJsqDf,eAAe,sB;UACf,IAAI,CAAC,QAAS,  
UAAAd,C;YAAyB,qBAAO,I;YAAP,uB;WACzB,eIqxqD2B,QJwqDZ,CAAS,QAAS,OAAIB,C;UACf,OAAO,QAAS,  
UAAhB,C;YACI,QI1qDuB,QJ0qDf,CAAS,QAAS,OAAIB,C;YACR,Wfz1DG,MAAK,KEy1DS,QFz1DT,EEy1D  
mB,CFz1DnB,C;;UE21DZ,qBAAO,Q;;QI7qDP,yB;O;KAXJ,C;+FAcA,yB;MNtMA,iB;MMsMA,sC;QAWmB,kB  
AAR,iB;QAAQ,sB;;UJ6qDf,eAAe,sB;UACf,IAAI,CAAC,QAAS,UAAAd,C;YAAyB,qBAAO,I;YAAP,uB;WACzB,  
eI/qD2B,QJ+qDZ,CAAS,QAAS,OAAIB,C;UACf,OAAO,QAAS,UAAhB,C;YACI,QIjrDuB,QJirDf,CAAS,QAAS,  
OAAIB,C;YACR,Wf13DG,MAAK,KE03DS,QF13DT,EE03DmB,CF13DnB,C;;UE43DZ,qBAAO,Q;;QIprDP,yB;  
O;KAXJ,C;+FAcA,+B;MASmB,kBAAR,iB;MAAQ,sB;;QJorDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UA  
AyB,qBAAO,I;UAAP,uB;SACzB,eItrD2B,QJsrDZ,CAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UAC  
I,QIxrDuB,QJwrDf,CAAS,QAAS,OAAIB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,qB  
AAO,Q;;MI7rDP,yB;K;0FAGJ,yB;MJ6rDA,sE;MI7rDA,kD;QJwsDI,eI7rDO,iBj6rDQ,W;QACf,IAAI,CAAC,QA

AS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eI/rDqC,QJ+rDtB,CAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAh  
B,C;UACI,QIjsDiC,QJisDzB,CAAS,QAAS,OAAIB,C;UACR,IIIsDqB,UJksDN,SAAQ,QAAR,EAakB,CAAIB,CA  
AX,GAakC,CAAtC,C;YACI,WAAW,C;;QInsDnB,OJssDO,Q;O;KIJtDX,C;sGAcA,2C;MASmB,kBAAR,iB;MAA  
Q,0B;;QJssDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,yBAAO,I;UAAP,2B;SACzB,eIxsD2C,QJws  
D5B,CAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIIsDuC,QJ0sD/B,CAAS,QAAS,OAAIB,C;  
UACR,II3sD2B,UJ2sDZ,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,yB  
AAO,Q;;MI/sDP,6B;K;sFAGJ,yB;MAOA,8D;MAPA,wC;QAI,OASe,cAAR,iBAAQ,EATM,UASN,C;O;KAbnB,  
C;kGAOA,yB;MAAA,8D;MAAA,wC;QAMI,OAe,cAAR,iBAAQ,EAAC,UAAAd,C;O;KANnB,C;kFASA,+B;MAC  
mB,kBAAR,iB;MAAQ,sB;;QJwxDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,I;UAAP,uB;S  
ACzB,cAAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eIvyDmB,QJu  
yDJ,CAAS,OAAT,C;;UAEX,QAAQ,QAAS,O;UACjB,QI1yDe,QJ0yDP,CAAS,CAAT,C;UACR,IAAI,2BAAW,C  
AAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAED,QAAT,QAAS,W;QACIB,qBAAO,O;;MIhzDP,yB;K;8F  
AGJ,+B;MAQmB,kBAAR,iB;MAAQ,sB;;QJwxDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO  
,I;UAAP,uB;SACzB,cAAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,  
eI5xD2B,QJ4xDZ,CAAS,OAAT,C;;UAEX,QAAQ,QAAS,O;UACjB,QI/xDuB,QJ+xDf,CAAS,CAAT,C;UACR,IA  
AI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAED,QAAT,QAAS,W;QACIB,qBAAO,O;;MI  
ryDP,yB;K;mFAGJ,yB;MJqyDA,sE;MFt1DA,iB;MMiDA,sC;QJkzDI,eIryDO,iBJqyDQ,W;QACf,IAAI,CAAC,QA  
AS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eIvyDqB,QJuyDN,CAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAh  
B,C;UACI,QIzyDiB,QJyyDT,CAAS,QAAS,OAAIB,C;UACR,WF/1DG,MAAK,KE+1DS,QF/1DT,EE+1DmB,CF/  
1DnB,C;;QMqDZ,OJ4yDO,Q;O;KIzzDX,C;mFAGBA,yB;MJ4yDA,sE;MFz3DA,iB;MM6EA,sC;QJyzDI,eI5yDO,i  
BJ4yDQ,W;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eI9yDqB,QJ8yDN,CAAS,QAAS,OA  
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,KEk4DS,QFI4DT,EEk4DmB,CFI4DnB,C;;QMIFZ,OJmzDO,Q;O;KIh0DX,C;mFAGBA,yB;MJmzDA,sE;MInzDA,  
sC;QJ8zDI,eInzDO,iBJmzDQ,W;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eIrzDqB,QJqzD  
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CR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QIzzDnB,OJ4zDO,Q;O;KIv0DX,C;+FAcA,yB;MN/FA,iB;  
MM+FA,sC;QAWmB,kBAAR,iB;QAAQ,sB;;UJ4zDf,eAAe,sB;UACf,IAAI,CAAC,QAAS,UAAAd,C;YAAyB,qBA  
AO,I;YAAP,uB;WACzB,eI9zD2B,QJ8zDZ,CAAS,QAAS,OAAIB,C;UACf,OAAO,QAAS,UAAhB,C;YACI,QIh0  
DuB,QJg0Df,CAAS,QAAS,OAAIB,C;YACR,WFI6DG,MAAK,KEk6DS,QFI6DT,EEk6DmB,CFI6DnB,C;;UEo6D  
Z,qBAAO,Q;;QIn0DP,yB;O;KAXJ,C;+FAcA,yB;MNzHA,iB;MMMyHA,sC;QAWmB,kBAAR,iB;QAAQ,sB;;UJm0  
Df,eAAe,sB;UACf,IAAI,CAAC,QAAS,UAAAd,C;YAAyB,qBAAO,I;YAAP,uB;WACzB,eI90D2B,QJq0DZ,CAAS,  
QAAS,OAAIB,C;UACf,OAAO,QAAS,UAAhB,C;YACI,QIv0DuB,QJu0Df,CAAS,QAAS,OAAIB,C;YACR,WFn8  
DG,MAAK,KEm8DS,QFn8DT,EEm8DmB,CFn8DnB,C;;UEq8DZ,qBAAO,Q;;QI10DP,yB;O;KAXJ,C;+FAcA,+  
B;MASmB,kBAAR,iB;MAAQ,sB;;QJ00Df,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,I;UAA  
P,uB;SACzB,eI50D2B,QJ40DZ,CAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QI90DuB,QJ80Df  
,CAAS,QAAS,OAAIB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,qBAAO,Q;;MIn1DP,  
yB;K;0FAGJ,yB;MJm1DA,sE;MIn1DA,kD;QJ81DI,eIn1DO,iBJm1DQ,W;QACf,IAAI,CAAC,QAAS,UAAAd,C;UA  
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DiC,QJu1DzB,CAAS,QAAS,OAAIB,C;UACR,IIx1DqB,UJw1DN,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,  
CAAtC,C;YACI,WAAW,C;;QIz1DnB,OJ41DO,Q;O;KIv2DX,C;sGAcA,2C;MASmB,kBAAR,iB;MAAQ,0B;;QJ4  
1Df,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,yBAAO,I;UAAP,2B;SACzB,eI91D2C,QJ81D5B,CAA  
S,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIh2DuC,QJg2D/B,CAAS,QAAS,OAAIB,C;UACR,IIj  
2D2B,UJi2DZ,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,yBAAO,Q;;  
MIr2DP,6B;K;IAGJ,0C;MAGI,OASe,gBAAR,iBAAQ,EATM,UASN,C;K;kGANnB,yB;MAAA,8D;MAAA,wC;Q  
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B,yB;QAAM,IAAI,UAAU,OAIV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;oFAGX,6B;MAKmC,Q;MA  
AA,OhBhIqD,iBAAQ,W;MgBgI7E,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB;K;kGA

GJ,yB;MAAA,6B;MAAA,sC;MJwyCA,wE;MIxyCA,2BAQiB,yB;QJgyCjB,wE;eIhyCiB,0B;UAAA,4B;YAAU,kB  
AAR,iB;YAAQ,aAAe,c;YJuyCzB,gB;YADb,YAAY,C;YACC,6B;YAAb,OAAa,cAAb,C;cAAa,sB;cAAM,OAAO,  
oBAAmB,cAAAnB,EAAmB,sBAAnB,UAAP,EAAoC,IAApC,C;;YIvyC2B,W;W;S;OAAjC,C;MARjB,oC;QJ+yCiB  
,gB;QADb,YAAY,C;QACC,OIvyCE,iBJuyCF,W;QAAb,OAAa,cAAb,C;UAAa,sB;UAAM,OAAO,oBAAmB,cAA  
nB,EAAmB,sBAAnB,UAAP,EAAoC,IAApC,C;;QIvyCnB,gB;O;KARJ,C;4FAWA,qB;MAKI,OAAO,iB;K;IAGX,i  
C;MAII,OAAe,aAAR,iBAAQ,C;K;gFtB3fnB,yB;MAAA,mC;MAAA,2C;MAAA,4B;QAQI,OAAO,kBAAO,cAAP  
,C;O;KARX,C;gFAWA,yB;MAAA,mC;MAAA,2C;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;gFAW  
A,yB;MAAA,mC;MAAA,2C;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;IAWA,sC;;QAQQ,OAAc,Q  
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AQQ,OAAc,SAAP,MAAO,EAAS,SAAT,C;;QACHb,+C;UACE,MAAM,2BAAuB,CAAE,QAAzB,C;;UAHV,O;;K  
;IAOJ,sC;;QAQQ,OAAuD,OAAhD,MAAO,iBAAQ,eAAM,IAAd,EAAuB,CAAA,cAAK,IAAL,IAAe,CAAf,IAAv  
B,CAAyC,C;;QACzD,+C;UACE,MAAM,2BAAuB,CAAE,QAAzB,C;;UAHV,O;;K;4FAOJ,yB;MAAA,mC;MAA  
A,uD;MAAA,4B;QAQI,OAAO,wBAAa,cAAb,C;O;KAPX,C;4FAUA,yB;MAAA,mC;MAAA,uD;MAAA,4B;QA  
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Ab,C;O;KAPX,C;IAUA,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAc,QAAP,MAAO,EAAQ,SAAR,  
C;K;IAGIB,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAc,SAAP,MAAO,EAAS,SAAT,C;K;IAGIB,4C  
;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAuD,OAAhD,MAAO,iBAAQ,eAAM,IAAd,EAAuB,CAAA,c  
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B,8B;MAQI,OAAO,mBAAmB,2BAAS,OAAT,C;K;oFAG9B,8B;MAQI,OAAO,mBAAmB,2BAAS,OAAT,C;K;I  
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KAAf,C;K;IAGX,uC;MezHW,SfgIM,mBAAN,KAAM,C;MAAb,OAA0C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,  
GAAkC,K;K;IAG5E,uC;MenIW,Sf0IM,kBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAh  
B,GAAkC,K;K;IAG7E,uC;MevJW,Sf8JM,qBAAN,KAAM,C;MAAb,OAA4C,UAAJ,GAAgB,2BAAS,EAAT,CA  
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;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG7E,uC;MevMW,Sf8MM,qBAAN,  
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K;IAGX,uC;MAOI,OAAO,2BAAS,KAAM,WAAf,C;K;IAGX,uC;MAKI,OAAO,2BAAE,KAAf,C;K;IAGX,uC;M  
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;K;IAG1B,iC;MAOI,OAAO,uCAAgB,yBAAGB,SAAhB,EAAyB,oBAAH,EAAG,CAAzB,M;K;IAG3B,iC;MAOI,  
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,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QA  
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,GAAR,EAaA,CAAb,CAAX,GAA6B,CAAJ,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,4B;MAQI,OAA  
O,CAAC,oBAAW,U;K;+EAGvB,gC;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAGb,yB;QAAM,IAA  
I,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;IAUI,uC;MAAA,qB;QACP,eAAO,EAAP,C;QA  
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B,OAAO,W;O;KARBX,C;gGAWBA,yB;MAAA,4F;MAAA,wE;MAAA,uC;QAoBmD,Q;QAL/C,eAAe,SAAK,W;  
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;cAHJ,gB;;;cAQJ,W;;;;;;;;;;;;;K;IAVgB,yE;MAAA,yD;uBAAA,gH;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAhBpB,  
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,OAAO,2BAAc,SAAd,C;K;IAGX,mD;MAIL,OAAO,kCAAqB,SAArB,C;K;gFAGX,+B;MAOoB,Q;MADhB,UAA  
e,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;  
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,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;iFAGX,+B;MAYoB,Q;MADhB,UAAe,C;MA  
CC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;iFAGX,  
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O,G;O;KAhBX,C;iFAmBA,yB;MN1/DA,+B;MM0/DA,sC;QAaoB,Q;QADhB,UN3/DqC,eAAW,oBM2/D/B,CN3/  
D+B,CAAX,C;QM4/DrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MNztEmD,eMytEnD,GNztE8D,KAA  
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I,gCAAJ,C;K;IAGX,oC;MAaI,OAAO,sBAAS,IAAT,EAAe,IAAf,EAAc,IAAtC,C;K;IAGX,+C;MAkBI,OAAO,s  
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;K;;IAT5G,qC;MAMI,kD;K;IAqBO,6D;MAAA,wC;MAAA,4B;K;IAG6B,8D;MAAA,qB;QAAE,OAAM,aAAN,m  
B;O;K;+CAFIC,Y;MACI,YAAqB,UAAAT,qBAAS,C;MACrB,OAAkB,YAAX,eAAW,EAAU,4CAAV,CAA0B,W;  
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AS,C;MACrB,IAAI,KAAM,UAAV,C;QACI,OAAO,eAAW,W;;QAEIB,OAAkB,YAAX,eAAW,EAAU,4CAAV,C  
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6B,UAA7B,C;K;IAGX,6C;MAUI,OAAO,oBAAgB,SAAhB,EAAcB,KAAtB,EAA6B,SAA7B,C;K;IAcY,kC;MAA

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B;MAAA,gD;MAAA,kD;MAAA,4B;MAAA,2B;MAAA,wB;MAAA,kC;K;;;sDAAA,Y;;;oCACL,sC;cACf,IAAI,  
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,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MASoB,Q;MAFhB,U  
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BR,C;W;S;OAAF,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;UjCkwBf,0D;YACI,liCnwB0B,U/BvjBQ,eF0zC  
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AE,yBfpiBS,eeoiBC,EfpiBD,CeoiBT,C;W;S;OAAF,C;MAP/B,uC;QAOmB,kBAAR,iB;QAAQ,sB;;UjC03BD,Q;U  
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J,C;+FAUA,yB;MAAA,sC;MjCy0BA,0D;MAAA,+C;ME36CA,+B;M+BkmBA,yBAO+B,yB;Q/BzmB/B,+B;e+By  
mB+B,6B;UAAA,qB;YAAE,yB/B/IBS,e+B+IBC,E/B/IBD,C+B+IBT,C;W;S;OAAF,C;MAP/B,uC;QAOmB,kBAA  
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O+B,yB;Q7BtmB/B,iC;e6BsmB+B,6B;UAAA,qB;YAAE,yB7B5lBY,gB6B4lBF,E7B5lBE,C6B4lBZ,C;W;S;OAA  
F,C;MAP/B,uC;QAOmB,kBAAR,iB;QAAQ,sB;;UjCw0BD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAAd,O  
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,C;YAAwB,OAAO,O;;QAEEnC,MAAM,gCAAuB,mDAAvB,C;O;KafV,C;iFAkBA,yB;MAAA,+C;MAAA,iE;MA  
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T/B,CfjgT+B,CAAX,C;QekgTrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,Mf/tTmD,ee+tTnD,Gf/tT8D,  
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+B;MemhTA,sC;QAYoB,Q;QADhB,UfnhTqC,eAAW,oBemhT/B,CfnhT+B,CAAX,C;QeohTrB,2B;QAAhB,OAA  
gB,cAAhB,C;UAAgB,yB;UACZ,MfjvTmD,eelvTnD,GfjvT8D,KAAK,KeivT5D,SAAS,OAAT,CfjvTuE,KAAX,C  
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AlFT,OAoFO,I;K;+EAjFX,yB;MAAA,kF;MAAA,gE;MhB9wTA,iB;MgB8wTA,8C;QAcOB,UAEY,M;QAL5B,gB  
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MAAYD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;  
QAAoB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJhF,kC;MACmD,iD;K;IAOF,uD;MAAA,kC;  
MAAS,sB;MACiD,aAAY,C;K;uDACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;uDACvC,Y;MAAuD,Q;MAA9  
B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAy  
B,UAAF,WAAvB,C;K;;IAJ/E,iC;MACiD,gD;K;IAOI,yD;MAAA,kC;MAAS,wB;MAC1D,aAAY,C;K;yDACZ,  
Y;MAAYB,oBAAQ,kBAAM,O;K;2DACvC,Y;MAAYD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,  
OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJfF,mC;  
MACqD,kD;K;IAOF,wD;MAAA,kC;MAAS,uB;MACxD,aAAY,C;K;wDACZ,Y;MAAYB,oBAAQ,  
kBAAM,O;K;yDACvC,Y;MAAwD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,  
iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJfF,mC;MACqD,kD;K;IAOE,  
0D;MAAA,kC;MAAS,yB;MAC5D,aAAY,C;K;0DACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;6DACvC,Y;MAA  
0D,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,  
MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJfF,oC;MACuD,mD;K;IAOJ,wD;MAAA,kC;MAAS,uB;MACxD,  
aAAY,C;K;wDACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;yDACvC,Y;MAAwD,Q;MAA9B,IAAI,aAAQ,kBAAM,  
OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;  
IAJhF,kC;MACmD,iD;K;IAOpB,gC;MAAC,wB;K;;IAEhC,+B;MAC8C,MAAM,mC;K;IAEpD,8C;MAEI,  
IAAI,qBAAJ,C;QACI,OAAO,CrB6GfE,WqB7GrE,UrB6GqE,EqB7GzD,QrB6GyD,C;;QqB3GxF,OAAS,  
CAAY,qBAAsB,UAAtB,EAAkC,QAaIC,C;;K;IAI7B,2C;MAEI,IAAI,KAAY,kBAAhB,C;QAGI,KAAY,  
mBAakB,QAaIB,C;;QAEH,QAAT,SAA+C,CAAIB,IAAJC,KAAiC,EAAkB,O;;K;IAIvD,sC;MAGwB,Q;  
MADpB,gBAAgB,IAAhB,KAAgB,E;MACI,IAAI,OCnGkB,ODmGT,OAAT,EAAqB,WAArB,CAAJ,C;  
QACHB,OAAI,aAAJ,GAAMB,KAAM,WAAzB,GAAyC,I;;QAEzC,c;;MAHJ,wB;MAKA,kBAakB,K;  
MACIB,iBAAiB,W;MACjB,OAAO,S;K;IAIa,sB;MAAC,U;K;iCACrB,iB;MACI,OAAO,mCAAsB,  
WAAK,KAAM,E;K;mCAG5C,Y;MACI,OAAO,M;K;mCAGX,Y;MACI,OAAuC,oBAAANB,UAA5B,  
IAAe,EAAa,CAAMB,C;K;0CAG3C,iB;MACI,OAAR,IAAI,EAAW,GAAN,K;K;kCAGL,Y;MA

El,OAAO,M;K;+DAIf,gB;MAEI,YAAY,MAAY,IAAK,OAAjB,C;MACZ,sBAAU,IAAV,a;QACI,UAAU,KAAK,CAAL,C;QACV,IAAI,oBAAJ,C;UACI,MAAM,CAAN,IAAW,EAAS,MAAM,MAAK,GAAL,C;;UAE1B,MAAM,CAAN,IAAW,G;;;MAGnB,OAAO,EAAS,OAAO,OAAM,EAAN,EAAGb,KAAhB,C;K;IAG3B,2B;MAMW,WAAO,S;MAIBd,YAAY,MAAY,IAAK,OAAjB,C;MACZ,sBAAU,IAAV,a;QACI,UAAU,KAAK,CAAL,C;QACV,IAAI,oBAAJ,C;UACI,MAAM,CAAN,IAAW,EAAS,MAAM,MAAK,GAAL,C;;UAE1B,MAAM,CAAN,IAAW,G;;;MAYnB,OATO,EAAS,OAAO,OAAM,EAAN,EAAGb,KAAhB,C;K;IAY3B,oC;MAWI,WAAqB,S;MACrB,IAAI,qBAAmB,CAAY,OAAd,KAA2B,SAAhD,C;QAJCA,YAAY,MAkCM,IAICW,OAAjB,C;QACZ,sBAiCkB,IAjCIB,a;UACI,UAGCc,IAhCJ,CAAK,CAAL,C;UACV,IAAI,oBAAJ,C;YACI,MAAM,CAAN,IAAW,EAAS,MAAM,MAAK,GAAL,C;;YAE1B,MAAM,CAAN,IAAW,G;;;QA4Bf,OAzBG,EAAS,OAAO,OAAM,EAAN,EAAGb,KAAhB,C;;QA2BnB,WAAW,C;QACX,0BAAU,IAAV,e;UACY,IAAoB,I;UAA5B,eAAQ,QAAoB,OAAPB,IAAQ,CAAH,GAAG,CAAY,OAAPB,oCAAR,K;;QAEJ,aAAa,IAAjB,CAAC,YAAGb,CAAH,IAAG,C;QE3FjB,IF4FyB,CE5FhB,OAAAL,KAAkB,SAATB,C;UF4F4B,ME3FxB,UF2FqB,CE3FF,O;SF4FnB,OAAO,C;QACP,0BAAU,IAAV,e;UAE0B,YACX,M;UAFX,YAAU,IAAQ,CAAH,GAAG,C;UACI,SAAJ,KAAI,O;UAAtB,aAAU,CAAV,kB;YACI,OAAO,aAAP,EAAO,qBAAP,YAAiB,MAAI,CAAJ,C;;;QAGzB,OAAO,M;;K;IAIf,0B;MACgC,WAAS,c;MAAT,YAAhC,EAAE,MAAM,KAAiD,CAA3C,SAA2C,C;MAWrD,eAAiB,I;MAXW,OAYrB,K;K;IAVX,uB;MAC6B,WAAS,W;MAAT,YAAsB,IAA/C,WAA+C,CAAnC,EAAE,MAAM,KAAK,CAAC,SAAD,CAAsB,C;MAQ/C,eAAiB,I;MARQ,OASIB,K;K;IAPX,uB;MAC6B,WAAS,W;MAAT,YAA7B,EAAE,MAAM,KAA2C,CAArC,SAAqC,C;MAK/C,eAAiB,I;MALQ,OAMIB,K;K;2DAJX,uB;MAGI,eAAiB,I;MACjB,OAAO,K;K;IG1M0B,2C;MAAC,8C;MACiC,eAAsB,C;MACTb,wBAA+B,C;MAC/B,gBAA6B,I;MAC7B,mBAAsC,I;MACTc,qBAAYC,I;MAEZC,yBAAgD,yBAAMB,Q;MAEnE,sBAAgD,I;K;wFAFhD,Y;MAAA,6B;K;0CAIA,Y;MAEY,kBADr,M;MAAA,U;MAAA,2C;QAAA,e;;QAES,gBADD,2CAAQ,yCAAR,gDAAwD,IAAxD,6BAAiE,I;QACzD,sBpCwEd,S;QoC1EF,SpC2EG,S;;MoC3EH,a;K;iDAIJ,kB;MACI,kBAAc,IAAd,C;MACiC,oB;MCsBrB,Q;MADR,IdrBsB,MCqBtB,W;QADJ,mBACiB,I;;QADjB,mBAEY,QDtBc,MCsBd,+D;;MDtBZ,yC;MACA,2BAAMc,MAAO,kBAA1C,C;MAGA,OAAO,IAAP,C;QpCoCY,gBoCnCH,S;;QACD,iBAAiB,8B;QAGjB,IAAI,0BAAJ,C;UACI,qBAAC,e;;UAEd,oBAAQ,0B;UACR,wBAAAY,kB;;;UAIZ,cAAc,oB;UACd,IAAI,YAAY,yBAAhB,C;YAAqC,M;UACrC,kBAAgB,O;UACHB,qBAAmB,I;UAEnB,kBAAgB,I;UACHB,qBAAmB,S;;QAGvB,gC;QAEA,IAAI,wCAAJ,C;UAEL,YAAU,U;;UAGV,U;UAAA,0C;YETHb,8BD+CQ,WAAO,qBAAP,CC/CR,C;YFSgB,a;;YAAA,a;UAAA,mB;YAEK,UePrB,oBD+CQ,WD3B+B,eC2B/B,CC/CR,C;WFqBgB,M;;K;mDAMhB,Y;MACI,kBAAKb,mB;MACIB,IAAI,uBAAuB,gBAAgB,IAA3C,C;QACI,uCAAQ,yCAAR,EAAmC,wCAA+B,WAA/B,C;OAEvC,sBAAoB,mC;K;;IAM5B,iC;MAAA,qC;K;gGAEQ,Y;MvC0DyC,MAAM,6BuC1DjC,uCvC0D+D,WAA9B,C;K;yDuCxDnD,kB;MvCwD6C,MAAM,6BuCvDzC,uCvCuDuE,WAA9B,C;K;;+CuCpDnD,Y;MAAKC,8C;K;;IARtC,6C;MAAA,4C;QAAA,2B;OAAA,qC;K;IGyDA,mG;IAAAA,yH;IAAA,6F;MAKW,kC;MAAS,4C;K;IALpB,sEAMQ,Y;MACI,Q;MAAA,sC;QAAiB,U;OACjB,OAAO,oB;K;IARnB,6G;sJAJIA,iC;MAGBU,OAAK,SAAL,CAAiB,UAAjB,EAA6B,KAA7B,C;K;wJAEV,2C;MAiBU,OAAK,SAAL,CAAiB,QAAjB,EAA2B,UAA3B,EAAuC,KAAvC,C;K;wJAEV,kD;MAKU,OAAK,SAAL,CAAiB,QAAjB,EAA2B,KAA3B,EAAkC,UAAIC,EAA8C,KAA9C,C;K;IAGC6C,oG;MAAA,mB;QAC3C,OAAK,iCAAL,CAAiB,kBAAjB,C;O;K;IA/BZ,6D;MA0BI,IAAS,SAAY,OAAjB,IAA2B,CAA/B,C;QAAA,OAES,SAAL,CAAiB,UAAjB,EAA6B,IAA7B,C;;QA8D0B,Q;QAhE9B,4DAImD,0DAJnD,EAGe8B,qBA5DS,UA4DT,qCAhE9B,C;;K;IAwCmD,wH;MAAA,mB;QAC3C,OAAK,iCAAL,CAAiB,gBAAjB,EAA2B,kBAA3B,C;O;K;IAhCZ,yE;MA2BI,IAAS,SAAY,OAAjB,IAA2B,CAA/B,C;QAAA,OAES,SAAL,CAAiB,QAAjB,EAA2B,UAA3B,EAAuC,IAAvC,C;;QA0B0B,Q;QA5B9B,4DAImD,sEAJnD,EA4B8B,qBAxBs,UAwBT,qCA5B9B,C;;K;IASJ,gC;MAWK,kBAAD,M;MAAA,kBAAC,qEAAD,4DAA2C,S;K;6CAG/C,yB;MAAA,mG;MAAA,yH;MAAA,6F;QAKW,kC;QAAS,4C;O;MALpB,sEAMQ,Y;QACI,Q;QAAA,sC;UAAiB,U;SACjB,OAAO,oB;O;MARnB,6G;MAAA,oC;QAKkC,Q;QAA9B,mEAA8B,oEAA9B,C;O;KALJ,C;iFC7HA,a;MAC6C,OAAA,MAAa,YAAW,CAAX,C;K;ICM3B,iC;;MAA6E,Q;MAAAA,+BAAS,I;sCAAIB,O,2DAAA,O;;;K;,,,,,;IAC/F,2B;MAAA,iD;MAAuB,oBAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,sC;MAAA,iD;MAAuC,oBAAK,OAAL,EAAc,IAAd,C;MAAvC,Y;K;IACA,oC;MAAA,iD;MAAwC,oBAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAI+B,mC;;MAA6E,Q;MAAA,+BAAS,I;sCAAIB,O,2DAAA,O;;;K;,,,,,;IACnG,+B;MAAA,mD;MAAuB,sBAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,0C;MAAA,mD;MAAuC,sBAAK,OAAL,EAAc,IAAd,C;MAAvC,Y;K;IACA,wC;MAAA,mD;MAAwC,sBAAK,SAAL,EAAg

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c,K;MACJ,0B;MAAV,OAAU,cAAV,C;QAAU,mB;QACN,kBAAI,eAAJ,EAAI,uBAAJ,WAAc,CAAd,C;QACA,U  
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D,iD;K;mDAErD,mB;MAAoD,0BAAQ,OAAR,KAAoB,C;K;kDAExE,mB;MACqB,Q;MAAA,6B;MAAjB,iBAAc  
,CAAd,yB;QACI,IAAI,wBAAI,KAAJ,GAAC,OAAd,CAAJ,C;UACI,OAAO,K;;MAGf,OAAO,E;K;sDAGX,mB;M  
ACI,iBAAc,sBAAd,WAA+B,CAA/B,U;QACI,IAAI,wBAAI,KAAJ,GAAC,OAAd,CAAJ,C;UACI,OAAO,K;;MAG  
f,OAAO,E;K;iDAGX,Y;MAA6D,iCAAA,CAAb,C;K;yDAC7D,iB;MAAuE,sDAAiB,KAAjB,C;K;oDAGvE,8B;M  
AA4E,uCAAQ,IAAR,EAAC,SAAd,EAAYB,OAazB,C;K;wDAE5E,8B;MAII,eAAe,0BAAa,SAAb,C;MACf,YAA  
O,UAAU,SAAV,I;MvDyDX,iBAAc,CAAd,UAAsB,KAAtB,U;QuDxDiB,e;QACA,iB;;K;2CAIjB,iB;MAMI,IAAI,  
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I,WAAJ,EAAU,OAAV,C;K;;IAIgb,+D;MAAuF,8B;MAAtF,kB;MAA0C,4B;MAC/D,eAAyB,C;MAGrB,oCAAa,2  
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b,C;QACI,aAAQ,oB;MACZ,OAAO,eAAS,C;K;gEAGpB,Y;MAEoB,Q;MADhB,IAAI,CAAC,cAAL,C;QAAgB,M  
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C;MvBXpB,OuBYqB,MvBzf,CuBYuB,KvBzVb,C;MuBaF,OAAO,M;K;;ICNuB,qC;MAAC,kC;MAEnC,oBAAk  
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,0BAAJ,C;QAAoB,OAAO,I;MAC3B,YAAY,kBAAW,GAAX,C;MACZ,OAAW,UAAU,SAArB,GAAGC,KAAhC,  
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,Y;MAA+B,OAAA,mCAAY,uBAAC,IAAd,C;K;qEAC3C,Y;MAAkC,OAAA,mCAAY,uBAAC,IAAd,C;K;mEAC9  
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,Y;MACI,OAAO,gBAAS,I;K;0DAGpB,Y;MAEL,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MAEtB,cAAc,0B;M  
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CZ,IAAI,SAAS,IAAb,C;QACI,sBAAO,S;QACP,yBAAO,S;QACP,yBAAO,S;;QAGK,YAAa,KAAM,a;QtEjBhC,u  
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yB;MAkBQ,qBAAO,QAAP,C;MAJJ,Y;K;IAOA,kE;MASyC,0B;QAAA,aAAoB,G;MAT7D,uD;MASqE,eAAM,q  
BAAsB,eAAtB,EA AuC,UAAvC,CAAN,Q;MA9BzE,yB;MAqBI,Y;K;IAWA,sD;MAAA,uD;MAA2C,qBAAK,eA  
AL,EAAsB,GAAtB,Q;MAA3C,Y;K;IAgBJ,qC;MAKMD,gBAAXC,mBAAC,qBAAd,C;MAAGD,6B;MAAvD,OpE  
mBO,S;K;;;kFqEzEX,uB;MAKI,OAAO,O;K;ICRX,sB;K;mCACI,Y;MACI,mBAAM,IAAN,C;K;2CAGJ,mB;MA  
CI,mBAAM,OAAN,C;MACA,c;K;iCAKJ,Y;K;;IAKuB,oC;MAA8B,qB;MAA7B,gC;K;2CACxB,mB;MAEI,oBA+  
DyC,OA/Dd,OA+Dc,C;MA9DzC,iBAAa,OAAM,aAAN,C;K;;IAIrB,8B;MAEoC,qB;K;iDACHC,mB;MACI,OAA  
Q,KAAl,OAAJ,C;K;mDAGZ,mB;MACI,OAAQ,KAAl,OAAJ,C;K;2CAGZ,Y;MACI,OAAQ,KAAl,EA AJ,C;K;;IA  
IhB,0B;MAEjC,qB;MACjC,cAAa,E;K;6CAEb,mB;MACI,eAoCyC,OA pCxB,OAoCwB,C;K;qCAjC7C,Y;MACI,c  
AAS,E;K;;IAIjB,sC;MAE4C,yB;K;yDACxC,mB;MACI,QA wByC,OAxB1B,OA wB0B,C;MAvBzC,QAAQ,C1Dy  
HoF,a0DzHhE,I1DyHgE,E0DzH1D,C1DyH0D,C;M0DxH5F,IAAI,KA AK,CAAT,C;QACI,4BAAU,C1DmI0E,W0  
DnI9D,C1DmI8D,E0DnI3D,C1DmI2D,C;Q0DIIpF,Y;QACA,IAAI,C1D8HiE,W0D9HrD,IAAI,CAAJ,I1D8HqD,C;  
00D5HzE,4BAAU,C;K;iDAGd,Y;MACI,OAAQ,KAAl,WAAJ,C;MACR,cAAS,E;K;;IAWjB,yB;MACiD,cAAa,K  
AAb,C;K;IAEjD,mB;MAEI,MAAO,U;K;IAGX,4B;MAEI,MAAO,iBAAQ,OAAR,C;K;IAGX,wB;MAEI,MAAO,e  
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MACI,UAAU,IAAK,S;MAEX,YAAQ,2CAAR,C;QACI,gBAAC,MAAO,M;WAEzB,YAAQ,yBAAR,C;QACI,gBA  
Ac,yC;QACd,eAAS,oBAAW,MAAX,C;;QAEI,MAAM,6BAAsB,iBAAtB,C;K;4CAItB,Y;MAOW,Q;MALP,IAAI  
,kBAAW,2CAAF,C;QACI,gBAAS,yB;QACT,OAAO,yB;OAEX,aAAa,IAAK,S;MAEd,eAAW,yCAAX,C;QAAsB,  
gC;WACtB,0C;QAA4B,MAAM,MAAO,U;;QACjC,a;MAHZ,W;K;;IA7BJ,gD;MAAA,0D;MACyD,6BAAK,QAA  
L,EA Ae,2CAAF,C;MADzD,Y;K;;;ICRA,2C;MAAA,+D;MAAuB,iC;MAF3B,iC;MAEI,Y;K;IACA,sD;MAAA,+  
D;MAAuC,6BAAM,OAAN,Q;MAH3C,iC;MAGI,Y;K;IACA,6D;MAAA,+D;MAAmD,kCAAM,OAAN,EA Ae,KA  
Af,C;MAJvD,iC;MAII,Y;K;IACA,oD;MAAA,+D;MAAiC,6BAAM,KAAN,Q;MALrC,iC;MAKI,Y;K;IIC4CJ,yE;  
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dZ,sF;ImC5C2E,0C;MpCiKhE,Q;MADP,eoC/JA,MpC+JA,C;MACO,QoChKP,MpCgKO,+D;MoC/JX,W;K;;+FCu  
HA,gB;MACI,aAAa,IAAb,MAAa,E;MACb,KA AK,MAAL,C;MACA,OAAO,M;K;wFC3HX,yB;MAAA,uD;MAA

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K;;ICCO,6C;MAAA,8B;MAAS,uB;K;8FACIC,Y;MAAQ,OAAA,gBAAY,O;K;mDAE3C,iB;MACI,IADoC,KACp  
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EzE,6B;MAiBa,UAPF,M;MAFP,QAAC,S;MAGV,cAAK,UAAU,U;QACI,mBAAK,UAAU,G;;QACJ,IzCzBqC,MA  
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AN,C;QACV,kBAaKB,sBAAY,GAAZ,C;QAKFiD,U;QAJFnE,W7FqKJ,a6FrKgB,G7FqKhB,E4F1OoB,CCqEkC,u  
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0B,kB;MAC1B,EAAE,uBAAF,IAA6B,qB;MAC7B,EAAE,iCAAF,IAAuC,+B;MACvC,EAAE,8BAAF,IAAoC,4B;  
MACpC,OAAO,C;K;+GAw0BX,wD;MACwC,6B;QAAA,gBAAYB,E;MAAI,uB;QAAA,UAAoB,K;MAAO,0B;Q  
AAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/I,QAAQ,E;MACR,EAAE,eAAF,IAAqB,a;MACrB,EAAE,S  
AAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6EA6CX,4B;  
MAC6D,iBAAY,KAAZ,C;K;6EAE7D,mC;MACoE,UAAy,KAAZ,IAAqB,K;K;6EAuBzF,4B;MAC8D,iBAAY,K  
AAZ,C;K;6EAE9D,mC;MACqE,UAAy,KAAZ,IAAqB,K;K;6EAuB1F,4B;MACqE,iBAAY,KAAZ,C;K;6EAErE,  
mC;MAC4E,UAAy,KAAZ,IAAqB,K;K;6EAuBjG,4B;MAC+D,iBAAY,KAAZ,C;K;6EAE/D,mC;MACsE,UAAy,  
KAAZ,IAAqB,K;K;6EAuB3F,4B;MACgE,iBAAY,KAAZ,C;K;6EAEhE,mC;MACuE,UAAy,KAAZ,IAAqB,K;K;  
6EAuB5F,4B;MAC6D,iBAAY,KAAZ,C;K;6EAE7D,mC;MACoE,UAAy,KAAZ,IAAqB,K;K;6EAuBzF,4B;MAC  
8D,iBAAY,KAAZ,C;K;6EAE9D,mC;MACqE,UAAy,KAAZ,IAAqB,K;K;6EAuB1F,4B;MACiE,iBAAY,KAAZ,C  
;K;6EAEjE,mC;MACwE,UAAy,KAAZ,IAAqB,K;K;6EAuB7F,4B;MACkE,iBAAY,KAAZ,C;K;6EAEIE,mC;MA  
CyE,UAAy,KAAZ,IAAqB,K;K;6GCxnC9F,wD;MACqC,6B;QAAA,gBAA+B,I;MAAM,uB;QAAA,UAAoB,K;M  
AAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACpJ,QAAQ,E;MACR,EAAE,eAAF,IAAqB,a;MAC  
rB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;m  
IAiCX,+B;MACgD,mC;QAAA,sBAAgC,K;MAC5E,QAAQ,E;MACR,EAAE,qBAAF,IAA2B,mB;MAC3B,OAAO  
,C;K;4EC3CX,4B;MACgE,iBAAY,KAAZ,C;K;4EAgChE,4B;MACyE,iBAAY,KAAZ,C;K;4EAIzE,4B;MACmE,  
iBAAY,KAAZ,C;K;4EAYnE,4B;MAC0E,iBAAY,KAAZ,C;K;oIC7a1E,4H;MAC8C,qB;QAAA,QAAiB,E;MAAI  
,6B;QAAA,gBAAgC,E;MAAW,iC;QAAA,oBAA2D,E;MAAW,iC;QAAA,oBAA2D,E;MAAW,qC;QAAA,wBAoI  
vJ,U;OApIqO,+B;QAAA,kBAoIrO,U;OApI6S,4B;QAAA,eAA+B,S;MAC3a,QAAQ,E;MACR,EAAE,OAAf,IAAa  
,K;MACb,EAAE,eAAF,IAAqB,a;MACrB,EAAE,mBAAF,IAAyB,iB;MACzB,EAAE,mBAAF,IAAyB,iB;MACzB,  
EAAE,uBAAF,IAA6B,qB;MAC7B,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,cAAF,IAAoB,Y;MACpB,OAAO,C;K  
;wIAYX,mC;MACgD,2B;QAAA,cAAuB,E;MAAI,0B;QAAA,aAAsB,E;MAC7F,QAAQ,E;MACR,EAAE,aAAF,I  
AAmB,W;MACnB,EAAE,YAAF,IAAkB,U;MACIB,OAAO,C;K;8HAuDX,+D;MACqG,uB;QAAA,UAAoB,K;M  
AAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/K,QAAQ,E;MACR,EAAE,aAAF,IAAmB,W;M  
ACnB,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,I

AAgB,Q;MACHB,OAAO,C;K;4HAwBX,iE;MACOC,4B;QAAA,eAAwB,E;MAAI,wB;QAAA,WAAyB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/K,QAAQ,E;MACR,EA AE,cAAF,IAAoB,Y;MACpB,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAk B,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;sGASqE,qB;MAAQ,OAAW,U;K;sGAEnB,qB;MAAQ, OAAW,U;K;4GAehB,qB;MAAQ,OAAc,a;K;wGAQ1B,qB;MAAQ,OAAy,W;K;0HAEX,qB;MAAQ,OAAqB,oB; K;kGAQnD,qB;MAAQ,OAAS,Q;K;oGAehB,qB;MAAQ,OAAU,S;K;sGAEjB,qB;MAAQ,OAAW,U;K;wHAEV,q B;MAAQ,OAAoB,mB;K;wHAE5B,qB;MAAQ,OAAoB,mB;K;kHAE/B,qB;MAAQ,OAAiB,gB;K;kHAEzB,qB;M AAQ,OAAiB,gB;K;oHAQd,qB;MAAQ,OAAkB,iB;K;oHAE1B,qB;MAAQ,OAAkB,iB;K;oHAE1B,qB;MAAQ,O AAkB,iB;K;wIAehB,qB;MAAQ,OAA4B,2B;K;4FCnLnI,uD;MAC8B,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SA Ae,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACHJ,QAAQ, E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAA F,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;kGAuBX,sE;MACiC,6B;QAAA,gBAA8B,I;M AAM,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SA Ae,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB, K;MAAO,wB;QAAA,WAAqB,K;MACvL,QAAQ,E;MACR,EAAE,eAAF,IAAqB,a;MACrB,EAAE,MAAF,IAAY, I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UA AF,IAAgB,Q;MACHB,OAAO,C;K;kGA8DX,8U;MACiC,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MA AG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,sB;QAAA,SAAiB,C;MAAG,uB;QAAA,UAAkB, C;MAAG,6B;QAAA,gBAA8B,I;MAAM,sB;QAAA,SAAkB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,wB;QAAA, WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,g C;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,6B;QAAA,gBAA0B, K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,8B;QAA A,iBAA2B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SA Ae,C;MAAG,u B;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC3wB,QAAQ,E;MACR,EA AE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,eAAF,IAAqB,a;MACrB,EAAE,QAAF,IAAc, M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,QAAF,IAAc,M;MACd,EAAE,SA AF,IAAe,O;MACf,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB, U;MACIB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EA AE,oBAAF,IAA0B,kB;MAC1B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IA A0B,kB;MAC1B,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EA AE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;wGAgDX,kQ;MACoC,uB;QAAA,UA AoB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,gC;Q AAA,mBAA6B,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,iBAA2B,K;M AAO,6B;QAAA,gBAA0B,K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,6B;QAAA,g BAA0B,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,oB;QAAA,OAAgB,I;MAAM,s B;QAAA,SA Ae,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;M AC7IB,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,QAAF,IAAc,M;M ACd,EAAE,SAAF,IAAe,O;MACf,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE ,YAAF,IAAkB,U;MACIB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB ,e;MACvB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,E AAE,oBAAF,IAA0B,kB;MAC1B,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAA e,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;kGAsCX,iX;MACiC,sB ;QAAA,SAAkB,G;MAAK,sB;QAAA,SAAkB,G;MAAK,sB;QAAA,SAAkB,G;MAAK,yB;QAAA,YAAkB,C;MA AG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAg B,C;MAAG,sB;QAAA,SAAiB,C;MAAG,uB;QAAA,UAAkB,C;MAAG,6B;QAAA,gBAA8B,I;MAAM,sB;QAAA, SAAkB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB ;QAAA,UAAoB,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAAuB,K; MAAO,8B;QAAA,iBAA2B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;QAAA,

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pB,C;;QAGE,oB;QAAuB,SAAZ,kBAAY,O;QAArC,uD;UACI,gBAAc,mBAAY,OAAZ,C;UACd,mBAAY,OAAZ,  
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J,OIJnCO,WoH+U6C,W;K;I8BvSxD,mE;MAEI,IAAY,SAAR,0BAAJ,C;QACI,MAAO,gBAAO,OAAP,C;QACP,  
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F,E;UAAmB,MAAO,gBAAE,gBAAR,OAAQ,CAAF,C;aAC1B,wBAPE,OAOF,E;UAAmB,MAAO,gBAAE,gBAA  
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ASF,E;UAAmB,MAAO,gBAAE,gBAAR,OAAQ,CAAF,C;aAC1B,0BAVE,OAUF,E;UAAmB,MAAO,gBAAE,gBA  
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AO,OAAQ,WAAf,C;;MAIIC,MAAO,gBAAO,EAAP,C;MACP,SAAU,kBAAMb,iBAAV,SAAU,CAAnB,C;K;I5Jj

Jd,yB;MAAA,6B;K;sCACI,Y;MAAkC,Y;K;0CACIC,Y;MAAsC,Y;K;wCACtC,Y;MAAgC,Q;K;4CACHC,Y;MAA  
oC,S;K;mCACpC,Y;MAA+B,MAAM,6B;K;uCACrC,Y;MAAmC,MAAM,6B;K;;;IAN7C,qC;MAAA,oC;QAAA,  
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+B,Q;K;mCAC/B,Y;MAAkC,W;K;iFAEX,Y;MAAQ,Q;K;kCAC/B,Y;MAAkC,W;K;yCACIC,mB;MAAmD,Y;K;8  
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B,C;UAAqC,aAAO,I;UAAP,e;SACrB,Ob9ID6C,Qa8ID7C,W;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAA  
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OA,yB;MAAA,+D;MAAA,mB;QAMwD,uB;O;KANxD,C;2FAQA,yB;MAAA,+D;MAAA,mB;QAMoD,uB;O;KA  
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;0CDgcV,a;MItXO,SJsXmC,eAAQ,CAAR,I;MAAD,OAA4B,KAAK,CAAT,GAAy,yBAAZ,GAAuC,iBAAa,eAA  
b,EAAuB,EAAvB,C;K;0CACxG,a;MIvXO,SJuXmC,eAAQ,CAAR,I;MAAD,OAA4B,KAAK,CAAT,GAAy,yBA  
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YAAW,yB;K;2DAEX,Y;MAEI,OAAO,YAAO,CAAP,IAAY,aAAS,UAA5B,C;QACI,aAAS,O;QACT,6B;;K;yDAI  
R,Y;MACI,a;MACA,OAAO,aAAS,O;K;4DAGpB,Y;MACI,a;MACA,OAAO,aAAS,U;K;;sCAnBxB,Y;MAAuC,o  
D;K;;IA6B3C,gD;MACI,0B;MACA,4B;K;IAGuC,0E;MAAA,oD;MACnC,gBAAe,iCAAS,W;MACxB,iBAAqB,E;  
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,Q;MALjB,IAAI,mBAAa,EAAjB,C;QACI,a;MAEJ,IAAI,mBAAa,CAAjB,C;QACI,aACa,gF;QACb,gBAAW,I;QA  
CX,iBAAy,C;QACZ,OAAO,M;OAEX,OAAO,aAAS,O;K;IEAGpB,Y;MACI,IAAI,mBAAa,EAAjB,C;QACI,a;M  
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;0CACnE,Y;MAAuC,4BAAiB,aAAO,WAAxB,EAAoC,kBAAPC,C;K;;IAGP,+C;MAAuE,2B;MAAE,sB;MAAiC,  
gC;MACIE,kBAAuB,c;K;6CAEvB,Y;MACI,OAAO,aAAO,UAAa,C;QACI,WAAW,aAAO,O;QACIB,UAAU,mB  
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,0D;MAAC,wC;MAAuC,kC;K;IACrC,0E;MAAA,oD;MACnC,gBAAmB,I;MACnB,iBAAqB,E;K;oEAERB,Y;MA  
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ArB,CAAd,CAAb,C;K;IAE5E,+B;MAMyD,OAAI,eAAJ,GAAqB,MAAM,OAAN,CAArB,GAAyC,U;K;IAEIG,kC  
;MAQI,OAAgB,gBAAT,QAAS,EAAgB,sBAAhB,C;K;sFAGpB,yB;MY/BA,uE;MZ+BA,gC;QY1B8B,gBAAnB,o  
B;QZ0CiB,aQ7CxB,W;QR6CA,OQ5CO,SIEwC,Q;O;KZ0BnD,C;wFAyBA,yB;MYhDA,wE;MZgDA,0C;QY3CsC  
,gBAA3B,mBZ+DiB,QY/DjB,C;QZ+D2B,aQ1EiC,W;QR0EA,OQzEO,SIUgD,Q;O;KZ2C3D,C;sFA8BA,yB;MAA  
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C,U;aACL,C;UAF4C,OAEvC,MAAM,oBAAW,OAAjB,C;gBAFuC,OAGpC,S;;K;IijKZ,oD;MAQuF,wC;K;IARvF  
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J,C;QACI,c4J3BI,aAAJ,GACI,yEADJ,GAGI,8C;Q5JyBJ,MAAM,gCAAYB,OAAQ,WAAjC,C;Q;I4JnBM,mI;MA  
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C,OAAO,WAAkB,0EAAIB,C;K;IAwCwB,6B;MAA8B,uB;MAA7B,kB;MACHc,mBAA6B,C;MAC7B,eAAyB,C;  
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,C5JvDtB,CAAJ,C;QACI,c4JsD2B,wE;Q5JrD3B,MAAM,gCAAYB,OAAQ,WAAjC,C;OAFV,IAAI,E4JwDQ,cAA  
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A,0B;K;uCAGA,iB;MAGW,Q;MAFP,+DAAkB,KAAIB,EAAyB,SAAzB,C;MAEA,OAAO,sBAAmGmC,CAnG5B,i  
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AAS,2B;MAC5C,eAAoB,oB;MACpB,eAAoB,4B;K;8DAEpB,Y;MAKgB,Q;MAJZ,IAAI,iBAAS,CAAb,C;QACI,  
W;;QAGA,mBAAQ,sCAAQ,YAAP,4DAAR,C;QACA,eAoFkC,CAPf1B,YAoF2B,GAPfB,CAoFa,IAAD,IAAa,+  
B;QAnF/C,mC;;K;;oCAXZ,Y;MAAuC,kD;K;2CAGvC,iB;MAGiE,UAQ1C,MAR0C,EAe1C,MAf0C,EAqBtD,M;  
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CIC,Q;UAAA,IAAI,oBAAmB,CAAvB,C;YAAA,OAA0B,e;;YAAqB,iBAAsB,kB;YAAtB,eAAkC,gB;YAAjF,OA  
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C,CAAR,EAAqB,SAkI+B,CAII/B,CAArB,C;;UAIId,W;S;O;MATR,kD;QAQI,sBAAW,wDAAX,C;O;KARJ,C;kG  
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Cb,c;UAHJ,OAGiB,C;;UAHjB,OAIY,kBAAW,SAAQ,CAAR,EAAW,CAAX,C;O;K;IAZ/B,gC;MAOI,sBAAW,6  
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Y,kBAAW,SAAQ,CAAR,EAAW,CAAX,C;O;K;IAZ/B,+B;MAOI,sBAAW,4BAAX,C;K;0FASJ,yB;MAAA,4D;M  
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DqD,OAC5B,SAAK,W;WAC9B,WAF2D,SAE3D,wC;QAFqD,OAEe,4F;WACvD,WAH2D,SAG3D,wC;QAHqD,  
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B,uBAA4B,Y;K;yFACF,Y;MAAQ,oB;K;gGACD,Y;MAAQ,2B;K;0DAEzC,gB;MAA6D,YAAK,C;K;kDAEIE,iB;  
MAA+C,gBAAS,aAAT,IAAmB,SAAS,oB;K;yCAC3E,Y;MAAkC,SAAE,iBAAU,oBAAZ,C;K;wCAEIC,iB;MACI  
,OAAO,2CAA8B,kBAaA,KAAM,UAAAnB,KAC7B,kBAAU,KAAM,SAAhB,IAA0B,yBAAiB,KAAM,gBADpB,C  
AA9B,C;K;0CAIX,Y;MACI,OAAW,cAAJ,GAAe,EAaf,GAAuB,MAAY,SAAP,aAAO,CAAZ,QAAuC,SAAd,oB  
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ER,iBAAO,E;;;QAOP,OAAOC,yB;O;KAJ9C,C;IAMA,kC;MAhEI,iBAAiB,C;MACjB,eAAe,mBAAS,CAAT,I;MA  
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FAGA,yB;MAAA,6B;MAAA,wB;QAEqD,qBAAK,IAAK,KAAK,GAAK,KAAM,KAAX,IAAf,C;O;KAFrD,C;0F  
AGA,yB;MAwJA,kBAS6D,sB;MAT7D,+B;MAxJA,wB;QAEuD,OeAA,eAAW,Cf+J7B,eAAW,oBAAL,SAAK,C  
AAL,iBAAN,Ce/J6B,MAAK,KfAl,KeAO,KAAX,CAAhB,C;O;KffvD,C;4FAIA,yB;MDkIA,6B;MCIIA,wB;QAEu  
D,OAMD,cAAK,IAAK,KAAK,GAAy,CDmI9C,cCzI+B,KDyIrB,KAAL,GAAiB,GAAtB,CCnI8C,MAAZ,IAAf,C  
;O;KARtD,C;4FAGA,yB;MCgIA,6B;MDhIA,wB;QAEwD,OAGF,cAAK,IAAK,KAAK,GAAy,CCoI9C,cDvIgC,K  
CuItB,KAAL,GAAiB,KAAtB,CDpI8C,MAAZ,IAAf,C;O;KALtD,C;4FAGA,yB;MAAA,6B;MAAA,wB;QAEsD,q  
BAAK,IAAK,KAAK,GAAW,KAAM,KAAX,IAAf,C;O;KAFtD,C;4FAGA,yB;MA2IA,kBAS6D,sB;MAT7D,+B;M  
A3IA,wB;QAEwD,OeAA,eAAW,CfkJ9B,eAAW,oBAAL,SAAK,CAAL,iBAAN,CelJ8B,MAAK,UfAK,KeAO,KA  
AZ,CAAhB,C;O;KfFxD,C;4FAIA,yB;MDqHA,6B;MCRHA,wB;QAEuD,OAMD,cAAe,YAAV,IAAK,KAAK,EAA  
Y,CDsH9C,cC5H+B,KD4HrB,KAAL,GAAiB,GAAtB,CCtH8C,MAAZ,CAAf,C;O;KARtD,C;4FAGA,yB;MCmH  
A,6B;MDnHA,wB;QAEwD,OAGF,cAAe,YAAV,IAAK,KAAK,EAAy,CCuH9C,cD1HgC,KC0HtB,KAAL,GAAi  
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K,KAAK,EAAW,KAAM,KAAX,CAAf,C;O;KAFtD,C;4FAGA,yB;MA8HA,kBAS6D,sB;MAT7D,+B;MA9HA,w  
B;QAEwD,OeAA,eAAW,CfqI9B,eAAW,oBAAL,SAAK,CAAL,iBAAN,CerI8B,MAAK,UfAK,KeAO,KAAX,CA  
AhB,C;O;KfFxD,C;wFAIA,yB;MDwGA,6B;MCIGA,4C;MANA,wB;QAEqD,OAMD,WAAW,IAAX,EDyGjB,cC/  
G2B,KD+GjB,KAAL,GAAiB,GAAtB,CCzGiB,C;O;KARpD,C;wFAGA,yB;MCsGA,6B;MDnGA,4C;MAHA,wB;  
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A,yB;MAAA,4C;MAAA,wB;QAEoD,kBAAW,IAAX,EAAiB,KAAjB,C;O;KAFpD,C;wFAGA,yB;MAiHA,kBAS  
6D,sB;MAT7D,+B;MejHA,8C;MfAA,wB;QAEsD,OeAA,YfwHjB,eAAW,oBAAL,SAAK,CAAL,iBAAN,CexHiB,  
EfAmB,KeAnB,C;O;KfFtD,C;wFAIA,yB;MD2FA,6B;MCRFA,kD;MANA,wB;QAEqD,OAMD,cAAc,IAAd,ED4Fj  
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GA,yB;MAAA,kD;MAAA,wB;QAEoD,qBAAc,IAAd,EAAoB,KAApB,C;O;KAFpD,C;wFAGA,yB;MAoGA,kBA  
S6D,sB;MAT7D,+B;MepGA,oD;MfAA,wB;QAEsD,OeAA,ef2GjB,eAAW,oBAAL,SAAK,CAAL,iBAAN,Ce3GiB  
,EfAmB,KeAnB,C;O;KfFtD,C;wEAlA,yB;MAAA,6B;MAAA,mB;QAEyC,qBAAK,SAAK,QAAV,C;O;KAFzC,C;  
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;O;KATnC,C;gFAWA,yB;MDoEJ,0B;MAAA,+B;MCpEl,mB;QASqC,ODsEA,eAAW,OCtEX,SDsEW,CAAX,C;  
O;KC/ErC,C;kFAUA,yB;MC2DJ,4B;MAAA,iC;MD3DI,mB;QASuC,OC6DA,gBAAy,QD7DZ,SC6DY,CAAZ,C;  
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PK,S2B5PmB,aAAM,mBAAN,EAAM,2BAAN,O3B4PnB,C;;Q2B5PgD,MAAM,2BAAuB,YAAM,WAA7B,C;K;;  
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,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;MWhmDH,iB;K;kCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OAAb  
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E5C,+B;MAAA,mC;MACI,aAC8B,cAAU,4BAAK,UAAf,EAA0B,4BAAK,UAA/B,C;K;;IAFIC,2C;MAAA,0C;Q  
AAA,yB;OAAA,mC;K;;IAYJ,oD;MAuCI,uC;MAjCI,IAAI,SAAQ,CAAZ,C;QAAuB,MAAA,gCAAYB,wBAAZB,C  
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E,sBAA2B,I;MAC3B,iBAAmC,OAAO,CAA1C,G/M/CkE,Y+M+CrB,K/M/CsC,KAAjB,E+M+CZ,I/M/CyC,KAA  
7B,C+M+CrB,KAA7C,G/M/CkE,Y+M+CF,K/M/CmB,KAAjB,E+M+CO,I/M/CsB,KAA7B,C+M+CF,K;MACHe,c  
/M6LmC,S+M7LhB,I/M6LgB,C;M+M5LnC,cAAuB,cAAJ,GAAa,KAAb,GAAwB,mB;K;gDAE3C,Y;MAAkC,qB;  
K;iDAEIC,Y;MACI,YAAAY,W;MACZ,IAAI,6BAAS,mBAAT,QAAJ,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAA  
,6B;QAC3B,iBAAU,K;;QAEV,c/MzC6C,S+MyC7C,W/MzCuD,KAAK,G+MyCpD,W/MzC+D,KAAAX,IAAf,C;;M  
+M2CjD,OAAO,K;K;;ICjHf,yB;K;mCAII,Y;MAA4B,uB;K;;IAMhC,0B;K;oCAII,Y;MAA4B,wB;K;;IAMhC,wB;  
K;kCAII,Y;MAA4B,sB;K;;IAMhC,yB;K;mCAII,Y;MAA4B,uB;K;;IjM7BN,qB;MAEtB,6B;MAFyD,gB;K;IAEzD,  
2B;MAAA,+B;MACI,iBAGoC,a;MAEpC,iBAGoC,c;MAEpC,kBAGmC,C;MAEnC,iBAGkC,E;K;;IANBtC,uC;M  
AAA,sC;QAAA,qB;OAAA,+B;K;sGAsBA,yB;MhB0LA,WAS6D,wB;MAT7D,+B;MgBIKA,gD;MAxBA,wB;QA  
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B4KtHiC,Q5KsH1B,IAAK,K4KtHX,G5KsHoB,KAAM,K4KtHM,C5KsHjC,C;O;KAFrD,C;0FAGA,yB;MAAA,iC ;M4KrHJ,4B;M5KqHI,wB;QAEoD,uB4KpHgC,Q5KoHzB,IAAK,K4KpHX,G5KoHmB,KAAM,K4KpHM,C5KoH hC,C;O;KAFpD,C;4FAGA,yB;MAAA,iC;M4KnHJ,4B;M5KmHI,wB;QAEqD,uB4KIHiC,Q5KkH1B,IAAK,K4K1 HX,G5KkHoB,KAAM,K4KIHM,C5KkHjC,C;O;KAFrD,C;4EAGA,yB;MAAA,iC;M4KjHJ,4B;M5KiHI,mB;QAE kC,uB4KhHsB,QAAP,C5KgHR,S4KhHe,C5KgHtB,C;O;KAFIC,C;kFAIA,yB;MAAA,0B;MAAA,mB;QAUmC,O AAK,OAAL,SAAK,C;O;KAVxC,C;oFAWA,Y;MASqC,gB;K;gFACrC,Y;MASiC,OAAK,SAAL,GAAiB,K;K;kF ACID,yB;MAAA,aASqD,0B;MATrD,mB;QASmC,OAAK,oBAAL,SAAK,CAAL,Y;O;KATnC,C;oFAWA,yB;MF +DJ,0B;MAAA,+B;ME/DI,mB;QASqC,OFiEE,eAAW,OEjEb,SFiEa,CAAX,C;O;KE1EvC,C;sFAUA,Y;MAEuC, W;K;kFACvC,yB;MAAA,6B;MAAA,mB;QASmC,qBAAU,SAAL,GAAiB,KAAiB,C;O;KATnC,C;oFAUA,yB;M AAA,aAS6D,0B;MAT7D,+B;MAAA,mB;QASqC,sBAAW,oBAAL,SAAK,CAAL,YAAN,C;O;KATrC,C;oFAWA ,Y;MAMqC,OApDC,SAAL,GAAiB,K;K;sFAqDID,Y;MAMuC,OA3DD,SAAL,GAAiB,K;K;gCA6DID,Y;MAAyC ,OAAQ,CA7DX,SAAL,GAAiB,KA6DD,Y;K;::;gCAhPrD,Y;MAAA,c;MAG8D,qD;MAH9D,a;K;8BAAA,iB;MA AA,2IAG8D,oCAH9D,G;K;0EAoPA,yB;MAAA,iC;MAAA,4B;QAW4C,uBAAY,SAAZ,C;O;KAX5C,C;4EAYA, yB;MAAA,iC;MAAA,4B;QAU6C,uBAAO,SAAP,C;O;KAV7C,C;4EAWA,yB;MAAA,4B;MAAA,iC;MAAA,4B; QAW2C,uBAAY,QAAL,SAAK,CAAZ,C;O;KAX3C,C;4EAYA,yB;MAAA,4B;MAAA,iC;MAAA,4B;QAW4C,u BAAY,QAAL,SAAK,SAAZ,C;O;KAX5C,C;I4BtRA,8B;MAEqB,sB;K;wCAKjB,iB;MAM8C,O5B4PL,W4B5PK, aAAQ,KAAR,C5B4PL,C;K;wC4B1PzC,wB;MAOI,aAAQ,KAAR,IAAiB,K5BkJgB,K;K;mF4B9IP,Y;MAAQ,OA AA,YAAQ,O;K;qCAE9C,Y;MAC0D,gCAAS,YAAT,C;K;IAEpC,qC;MAAkC,yB;MAAjC,oB;MACnB,eAAoB,C; K;6CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;gDACvC,Y;MAA0D,Q;MAA9B,IAAI,eAAQ,YAAM,OAAIB,C;QA AA,O5BuOS,W4BvOe,aAAM,mBAAN,EAAM,2BAAN,O5BuOf,C;;Q4BvO8C,MAAM,2BAAuB,YAAM,WAA7 B,C;K;;2CAG7F,mB;MAIS,Q;MAAL,IAAI,eAAC,0EAAD,SAAJ,C;QAAkC,OAAO,K;MAEzC,OAAe,WAAR,Y AAQ,EAAS,O5B6HS,K4B7HIB,C;K;gDAGnB,oB;MACY,Q;MAA2B,gBAA3B,gE;MAA2B,c;;Qb+IDvB,U;QAD hB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;UAAP,e;SACrB,6B;QAAhB,OAAgB,gBAAhB,C;UAAgB,2B;U a/ID6B,2Bb+IDR,Oa/IDQ,S;UAAA,W;YAAwB,oBAAR,YAAQ,Eb+IDhC,Of+CA,K4BzHgC,C;Wb+ID/C,IAAI,O AAJ,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;MahmDH,iB;K;oCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OA Ab,KAAqB,C;K;;IA9CvD,uC;MAAA,qD;MACgC,wBAAK,eAAW,IAAX,CAAL,C;MADhC,Y;K;::;qCAPJ,Y;MA AA,OAKqB,sDALrB,M;K;qCAAA,Y;MAAA,c;MAKqB,wD;MALrB,a;K;mCAAA,iB;MAAA,2IAKqB,0CALrB, G;K;kFAwDA,yB;MAAA,2C;MAWwC,0C;QAAA,wB;UAAW,OAAA,aAAK,KAAL,C5BwGV,K;S;O;M4BnHzC ,6B;QAWI,OAAO,qBAAY,gCAAW,IAAX,GAAiB,wBAAjB,CAAZ,C;O;KAXX,C;oFAcA,oB;MAGwE,e;K;IwLz ExE,sC;MAQ2D,OAAa,WAAb,StN4KjB,KAAL,GAAiB,GsN5Kkb,EAAS,KAAT,C;K;IAExE,sC;MAQ4D,OAAa ,WAAb,SpNmKIB,KAAL,GAAiB,KoNnKmB,EAAS,KAAT,C;K;IAGzE,sC;MAQ0D,OAAc,WrNyK5B,oBqNzKc ,SrNyKnB,KAAK,CAAL,iBqNzKiC,EAAS,KAAT,C;K;IAExE,sC;MAOgD,uBAAc,StMiKvB,KsMjKS,EAA6B, WAAW,KAAX,CAA7B,C;K;IAGhD,8B;MAMqC,Q;MAAA,0DAAmB,kBAAkB,SAIIB,C;K;IAExD,qC;MAO+C ,Q;MAAA,0CAAc,KAAd,oBAAwB,kBAAkB,SAIIB,C;K;IAGvE,+B;MAMuC,Q;MAAA,2DAAoB,kBAAkB,SA AIB,C;K;IAE3D,sC;MAOiD,Q;MAAA,2CAAE,KAAf,oBAAYB,kBAAkB,SAIIB,C;K;IAE1E,6B;MAMmC,Q;MA AA,yDAAkB,kBAAkB,SAIIB,C;K;IAErD,oC;MAO6C,Q;MAAA,yCAAA,KAAb,oBAAUb,kBAAkB,SAIIB,C;K ;IAEpE,8B;MAMqC,Q;MAAA,0DAAmB,kBAAkB,SAIIB,C;K;IAExD,qC;MAO+C,Q;MAAA,0CAAc,KAAd,oB AAwB,kBAAkB,SAIIB,C;K;IAMvE,kC;MAM4C,kCAAsB,EAATB,C;K;IAE5C,2C;MASmB,Q;MAAA,sBAAL,S AAK,EAAa,KAAb,C;MAAL,iB;QAA4B,OAAO,I;OAA7C,UAAU,I;MACV,IrNhFkE,YqNgF9D,GrNhF+E,KAAj B,EAA6B,CDkK5D,SsNIFzB,6BAAM,UtNkF6B,KAAL,GAAiB,GAAiB,CCIK4D,MAA7B,CqNgF9D,IAAJ,C;Q AA2B,OAAO,I;MACIC,OtNkJqC,UAAW,OsNIJzC,GrN4E8B,KDsEW,CAAX,C;K;IsN/IzC,mC;MAM8C,mCAAu B,EAAvB,C;K;IAE9C,4C;MASmB,Q;MAAA,sBAAL,SAAK,EAAa,KAAb,C;MAAL,iB;QAA4B,OAAO,I;OAA7 C,UAAU,I;MACV,IrNtGkE,YqNsG9D,GrNtG+E,KAAjB,EAA6B,CCmK5D,SoN7DzB,8BAAO,UpN6D4B,KAA L,GAAiB,KAAiB,CDnK4D,MAA7B,CqNsG9D,IAAJ,C;QAA4B,OAAO,I;MACnC,OpN6HuC,WAAy,QoN7H5C ,GrNgEgC,KC6DY,CAAZ,C;K;IoN1H3C,iC;MAM0C,iCAAqB,EAATB,C;K;IAE1C,0C;MASI,WAAW,KAAX,C; MAEA,aAAa,SAAK,O;MACIB,IAAI,WAAU,CAAd,C;QAAiB,OAAO,I;MAExB,YAAkB,4BAAK,U;MACvB,S; MAEA,gBAAgB,qBAAK,CAAL,C;MACHB,IAAI,YAAY,EAAhB,C;QACI,IAAI,WAAU,CAAV,IAAe,cAAa,EA AhC,C;UAAqC,OAAO,I;QAC5C,QAAQ,C;;QAER,QAAQ,C;;MAGZ,uBAAUb,mB;MAEvB,qBAAqB,gB;MACr

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