# **New API since JDK 11**

Show API added in:  $\checkmark$  12  $\checkmark$  13  $\checkmark$  14  $\checkmark$  15  $\checkmark$  16  $\checkmark$  17  $\checkmark$  18  $\checkmark$  19  $\checkmark$  20  $\checkmark$  21

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## **New Modules**

Module \$	Added in \$	Description
jdk.jpackage	16	Defines the Java Packaging tool, jpackage.
jdk.nio.mapmode	14	Defines JDK-specific file mapping modes.

### New Packages

Package \$	Added in \$	Description
java.lang.constant	12	Classes and interfaces to represent <i>nominal descriptors</i> for run-time entities such as classes or method handles, and classfile entities such as constant pool entries or invokedynamic call sites.
java.lang.runtime	14	The java.lang.runtime package provides low-level runtime support for the Java language.
java.util.random	17	This package contains classes and interfaces that support a generic API for random number generation.

## New Interfaces

New Interfaces		
Interface \$	Added in \$	Description
com.sun.net.httpserver.Request	18	A view of the immutable request state of an HTTP exchange.
com.sun.source.doctree.EscapeTree	21	A tree node for a character represented by an escape sequence.
com.sun.source.doctree.SnippetTree	18	A tree node for an @snippet inline tag.
com.sun.source.doctree.SpecTree	20	A tree node for an @spec block tag.
com.sun.source.doctree.SystemPropertyTree	12	A tree node for an @systemProperty inline tag.
com.sun.source.tree.AnyPatternTreePREVIEW	21	A tree node for a binding pattern that matches a pattern with a variable of any name and a type of the match candidate; an unnamed pattern.
com.sun.source.tree.BindingPatternTree	16	A binding pattern tree
com.sun.source.tree.CaseLabelTree	21	A marker interface for Trees that may be used as CaseTree labels.
com.sun.source.tree.ConstantCaseLabelTree	21	A case label element that refers to a constant expression
com.sun.source.tree.DeconstructionPatternTree	21	A deconstruction pattern tree.
com.sun.source.tree.DefaultCaseLabelTree	21	A case label that marks default in case null, default.
com.sun.source.tree.PatternCaseLabelTree	21	A case label element that refers to an expression
com.sun.source.tree.PatternTree	16	A tree node used as the base class for the different kinds of patterns.

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com.sun.source.tree.SwitchExpressionTree	12	A tree node for a switch expression.
com.sun.source.tree.YieldTree	13	A tree node for a yield statement.
com.sun.source.util.ParameterNameProvider	13	A provider for parameter names when the parameter names are not determined from a reliable source, like a classfile.
java.lang.constant.ClassDesc	12	A nominal descriptor for a Class constant.
java.lang.constant.Constable	12	Represents a type which is <i>constable</i> .
java.lang.constant.ConstantDesc	12	A nominal descriptor for a loadable constant value, as defined in JVMS $4.4^{\mbox{\tiny L}}$ .
java.lang.constant.DirectMethodHandleDesc	12	A nominal descriptor for a direct MethodHandle.
java.lang.constant.MethodHandleDesc	12	A nominal descriptor for a MethodHandle constant.
java.lang.constant.MethodTypeDesc	12	A nominal descriptor for a MethodType constant.
java.lang.constant.ModuleDesc	21	A nominal descriptor for a Module constant.
java.lang.constant.PackageDesc	21	A nominal descriptor for a Package constant.
java.lang.foreign.AddressLayout <sup>PREVIEW</sup>	19	A value layout used to model the address of some region of memory.
java.lang.foreign.Arena <sup>PREVIEW</sup>	20	An arena controls the lifecycle of native memory segments, providing both flexible allocation and timely deallocation.
java.lang.foreign.FunctionDescriptorPREVIEW	19	A function descriptor models the signature of a foreign function.
java.lang.foreign.GroupLayoutPREVIEW	19	A compound layout that is an aggregation of multiple, heterogeneous <i>member layouts</i> .
java.lang.foreign.Linker <sup>PREVIEW</sup>	19	A linker provides access to foreign functions from Java code, and access to Java code from foreign functions.
java.lang.foreign.Linker.Option PREVIEW	20	A linker option is used to provide additional parameters to a linkage request.
java.lang.foreign.MemoryLayout <sup>PREVIEW</sup>	19	A memory layout describes the contents of a memory segment.
java.lang.foreign.MemoryLayout.PathElement <sup>PREVIEW</sup>	19	An element in a <i>layout path</i> .
java.lang.foreign.MemorySegment <sup>PREVIEW</sup>	19	A memory segment provides access to a contiguous region of memory.
java.lang.foreign.PaddingLayout <sup>PREVIEW</sup>	20	A padding layout.
java.lang.foreign.SequenceLayout <sup>PREVIEW</sup>	19	A compound layout that denotes a homogeneous repetition of a given <i>element layout</i> .
java.lang.foreign.StructLayout <sup>PREVIEW</sup>	20	A group layout whose member layouts are laid out one after the other.
java.lang.foreign.UnionLayout <sup>PREVIEW</sup>	20	A group layout whose member layouts are laid out at the same starting offset.
java.lang.foreign.ValueLayoutPREVIEW	19	A layout that models values of basic data types.
java.lang.foreign.ValueLayout.OfBoolean PREVIEW	19	A value layout whose carrier is boolean.class.
java.lang.foreign.ValueLayout.OfBytePREVIEW	19	A value layout whose carrier is byte.class.
java.lang.foreign.ValueLayout.OfChar <sup>PREVIEW</sup>	19	A value layout whose carrier is char.class.
java.lang.foreign.ValueLayout.OfDouble PREVIEW	19	A value layout whose carrier is double.class.
java.lang.foreign.ValueLayout.OfFloat PREVIEW	19	A value layout whose carrier is float.class.
java.lang.foreign.ValueLayout.OfIntPREVIEW	19	A value layout whose carrier is int.class.
java.lang.foreign.ValueLayout.OfLongPREVIEW	19	A value layout whose carrier is long.class.
java.lang.foreign.ValueLayout.OfShortPREVIEW	19	A value layout whose carrier is short.class.
java.lang.invoke.TypeDescriptor	12	An entity that has a type descriptor.
java.lang.invoke.TypeDescriptor.OfField	12	An entity that has a field type descriptor.

12	An entity that has a method type descriptor Method descriptors conforming to JVMS 4.3.3 can be described
	nominally via MethodType::describeConstable; otherwise they cannot be described nominally.
21	StringTemplate PREVIEW is the run-time representation of a string template or text block template in a template expression.
21	This interface describes the methods provided by a generalized string template processor.
21	Built-in policies using this additional interface have the flexibility to specialize the composition of the templated string by returning a customized MethodHandle from linkage PREVIEW.
21	A builder for Thread and ThreadFactory objects.
21	A builder for creating a platform Thread or ThreadFactory that creates platform threads.
21	A builder for creating a virtual Thread or ThreadFactory that creates virtual threads.
18	This interface defines operations for looking up host names and IP addresses.
18	A Configuration object is supplied to the InetAddressResolverProvider.get(Configuration) method when setting the system-wide resolver.
15	An interface for an elliptic curve public/private key as defined by RFC 8032: Edwards-Curve Digital Signature Algorithm (EdDSA).
15	An interface for an elliptic curve private key as defined by RFC 8032: Edwards-Curve Digital Signature Algorithm (EdDSA).
15	An interface for an elliptic curve public key as defined by RFC 8032: Edwards-Curve Digital Signature Algorithm (EdDSA).
17	Provides access to the current instant.
21	Represents a subtask forked with StructuredTaskScope.fork(Callable) PREVIEW.
17	The RandomGenerator interface is designed to provide a common protocol for objects that generate random or (more typically) pseudorandom sequences of numbers (or Boolean values).
21	A collection that has a well-defined encounter order, that supports operations at both ends, and that is reversible.
21	A Map that has a well-defined encounter order, that supports operations at both ends, and that is reversible.
21	A collection that is both a SequencedCollection and a Set.
e 16	Represents an operation that accepts a double-valued argument and a DoubleConsumer, and returns no result.
16	Represents an operation that accepts an int-valued argument and an IntConsumer, and returns no result.
16	Represents an operation that accepts a long-valued argument and a LongConsumer, and returns no result.
21	This class defines the Service Provider Interface (SPI) for the KEM class.
21	The KEM decapsulator implementation, generated by KEMSpi.engineNewDecapsulator(java.security.Private java.security.spec.AlgorithmParameterSpec) on the KEM receiver side.
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javax.crypto.KEMSpi.EncapsulatorSpi	21	The KEM encapsulator implementation, generated by KEMSpi.engineNewEncapsulator(java.security.Publickjava.security.spec.AlgorithmParameterSpec,java.security.SecureRandom) on the KEM sender side.
javax.lang.model.element.RecordComponentElement	16	Represents a record component.
jdk.jfr.consumer.EventStream	14	Represents a stream of events.
jdk.jshell.JShellConsole	21	An interface providing functionality for Console in the user's snippet.

New Classes		
Class \$	Added in \$	Description
com.sun.net.httpserver.HttpHandlers	18	Implementations of HttpHandler that implement various useful handlers, such as a static response handler, or a conditional handler that complements one handler with another.
com.sun.net.httpserver.SimpleFileServer	18	A simple HTTP file server and its components (intended for testing, development and debugging purposes only).
java.lang.constant.ConstantDescs	12	Predefined values of nominal descriptor for common constants, including descriptors for primitive class types and other common platform types, and descriptors for method handles for standard bootstrap methods.
java.lang.constant.DynamicCallSiteDesc	12	A nominal descriptor for an invokedynamic call site.
java.lang.constant.DynamicConstantDesc	12	A nominal descriptor for a dynamic constant (one described in the constant pool with Constant_Dynamic_info.)
java.lang.Enum.EnumDesc	12	A nominal descriptor for an enum constant.
java.lang.invoke.VarHandle.VarHandleDesc	12	A nominal descriptor for a VarHandle constant.
java.lang.Record	16	This is the common base class of all Java language record classes.
java.lang.reflect.RecordComponent	16	A RecordComponent provides information about, and dynamic access to, a component of a record class.
java.lang.runtime.ObjectMethods	16	Bootstrap methods for state-driven implementations of core methods, including Object.equals(Object), Object.hashCode(), and Object.toString().
java.lang.runtime.SwitchBootstraps	21	Bootstrap methods for linking invokedynamic call sites that implement the selection functionality of the switch statement.
java.lang.runtime.TemplateRuntimePREVIEW	21	Manages string template bootstrap methods.
java.lang.ScopedValue <sup>PREVIEW</sup>	21	A value that may be safely and efficiently shared to methods without using method parameters.
java.lang.ScopedValue.Carrier <sup>PREVIEW</sup>	21	A mapping of scoped values, as <i>keys</i> , to values.
java.net.spi.InetAddressResolver.LookupPolicy	18	A LookupPolicy object describes characteristics that can be applied to a lookup operation.
java.net.spi.InetAddressResolverProvider	18	Service-provider class for InetAddress resolvers.
java.net.UnixDomainSocketAddress	16	A Unix domain socket address.
java.security.spec.EdDSAParameterSpec	15	A class used to specify EdDSA signature and verification parameters.
java.security.spec.EdECPoint	15	An elliptic curve point used to specify keys as defined by RFC 8032: Edwards-Curve Digital Signature Algorithm (EdDSA) <sup>12</sup> .
java.security.spec.EdECPrivateKeySpec	15	A class representing elliptic curve private keys as defined in RFC 8032: Edwards-Curve Digital Signature Algorithm (EdDSA) <sup>L3</sup> , including the curve and other algorithm parameters.

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java.security.spec.EdECPublicKeySpec	15	A class representing elliptic curve public keys as defined in RFC 8032: Edwards-Curve Digital Signature Algorithm (EdDSA) <sup>12</sup> , including the curve and other algorithm parameters.
java.text.CompactNumberFormat	12	CompactNumberFormat is a concrete subclass of NumberFormat that formats a decimal number in its compact form.
java.util.concurrent.StructuredTaskScope <sup>PREVIEW</sup>	21	A basic API for <i>structured concurrency</i> .
java.util.concurrent.StructuredTaskScope.ShutdownOnFa	21	A StructuredTaskScope that captures the exception of the first subtask to fail $^{\mbox{\scriptsize PREVIEW}}.$
java.util.concurrent.StructuredTaskScope.ShutdownOnSt	21	A StructuredTaskScope that captures the result of the first subtask to complete successfully $^{\text{PREVIEW}}$ .
java.util.FormatProcessor <sup>PREVIEW</sup>	21	This StringTemplate.Processor $^{\text{PREVIEW}}$ constructs a String result using Formatter specifications and valu found in the StringTemplate $^{\text{PREVIEW}}$ .
java.util.HexFormat	17	HexFormat converts between bytes and chars and hexencoded strings which may include additional formatting markup such as prefixes, suffixes, and delimiters.
java.util.random.RandomGeneratorFactory	17	This is a factory class for generating multiple random number generators of a specific algorithm.
javax.crypto.KEM	21	This class provides the functionality of a Key Encapsulation Mechanism (KEM).
javax.crypto.KEM.Decapsulator	21	A decapsulator, generated by KEM.newDecapsulator(java.security.PrivateKey) the KEM receiver side.
javax.crypto.KEM.Encapsulated	21	This class specifies the return value of the encapsulate method of a Key Encapsulation Mechanism (KEM), which includes the shared secret (as a SecretKey), the key encapsulation message, and optional parameters.
javax.crypto.KEM.Encapsulator	21	An encapsulator, generated by KEM.newEncapsulator(java.security.PublicKey) o the KEM sender side.
javax.lang.model.util.AbstractAnnotationValueVisitor14	14	A skeletal visitor for annotation values with default behavior appropriate for source version RELEASE_14.
javax.lang.model.util.AbstractElementVisitor14	16	A skeletal visitor of program elements with default behavior appropriate for the RELEASE_14 source version.
javax.lang.model.util.AbstractTypeVisitor14	14	A skeletal visitor of types with default behavior appropriate for the RELEASE_14 source version.
javax.lang.model.util.ElementKindVisitor14	16	A visitor of program elements based on their kind with default behavior appropriate for the RELEASE_14 source version.
javax.lang.model.util.ElementScanner14	16	A scanning visitor of program elements with default behavior appropriate for the RELEASE_14 source version.
javax.lang.model.util.SimpleAnnotationValueVisitor14	14	A simple visitor for annotation values with default behavior appropriate for source version RELEASE_14.
javax.lang.model.util.SimpleElementVisitor14	16	A simple visitor of program elements with default behavior appropriate for the RELEASE_14 source version.
javax.lang.model.util.SimpleTypeVisitor14	14	A simple visitor of types with default behavior appropriate for source version RELEASE_14.
javax.lang.model.util.TypeKindVisitor14	14	A visitor of types based on their kind with default behavior appropriate for source version RELEASE_14.
javax.naming.ldap.spi.LdapDnsProvider	12	Service-provider class for DNS lookups when performing LDAP operations.
javax.naming.ldap.spi.LdapDnsProviderResult	12	The result of a DNS lookup for an LDAP URL.

javax.xml.crypto.dsig.spec.RSAPSSParameterSpec	17	Parameters for the XML Signature RSASSA-PSS Algorithm.
jdk.jfr.consumer.MetadataEvent	16	Event that contains information about event types and configurations.
jdk.jfr.consumer.RecordingStream	14	A recording stream produces events from the current JVM (Java Virtual Machine).
jdk.management.jfr.RemoteRecordingStream	16	An implementation of an EventStream that can serialize events over the network using an MBeanServerConnection.
jdk.nio.mapmode.ExtendedMapMode	14	JDK-specific map modes.

## **New Enum Classes**

New Enum Classes		
Enum Class \$	Added in \$	Description
com.sun.management.HotSpotDiagnosticMXBean.Thread	21	Thread dump format.
com.sun.net.httpserver.SimpleFileServer.OutputLevel	18	Describes the log message output level produced by the server when processing exchanges.
com.sun.source.tree.CaseTree.CaseKind	12	The syntactic form of this case: STATEMENT: case <expression>: <statements> RULE: case <expression> -&gt; <expression>/<statement></statement></expression></expression></statements></expression>
java.lang.constant. Direct Method Handle Desc. Kind	12	Kinds of method handles that can be described with DirectMethodHandleDesc.
java.lang.invoke.MethodHandles.Lookup.ClassOption	15	The set of class options that specify whether a hidden class created by Lookup::defineHiddenClass method is dynamically added as a new member to the nest of a lookup class and/or whether a hidden class has a strong relationship with the class loader marked as its defining loader.
java.lang.reflect.AccessFlag	20	Represents a JVM access or module-related flag on a runtime member, such as a class, field, or method.
java.lang.reflect.AccessFlag.Location	20	A location within a class file where flags can be applied.
java.lang.reflect.ClassFileFormatVersion	20	Class file format versions of the Java virtual machine.
java.text.NumberFormat.Style	12	A number format style.
java.util.concurrent.Future.State	19	Represents the computation state.
java.util.concurrent.StructuredTaskScope.Subtask.State	21	Represents the state of a subtask.
jdk.jshell.SourceCodeAnalysis.Attribute	19	A span attribute which can be used to derive a coloring.

# **New Exception Classes**

Exception Class \$	Added in \$	Description
com.sun.jdi.OpaqueFrameException	19	Thrown to indicate an operation could not be performed on a frame.
java.lang.MatchException	21	Thrown to indicate an unexpected failure in pattern matching.
java.lang.WrongThreadException	19	Thrown to indicate that a method has been called on the wrong thread.
java.util.concurrent.StructureViolationExceptionPREVIEW	21	Thrown when a structure violation is detected.
javax.crypto.DecapsulateException	21	An exception that is thrown by the KEM.Decapsulator.decapsulate(byte[]) method to denote an error during decapsulation.

## **New Record Classes**

Record Class \$	Added in \$	Description
jdk.jshell.SourceCodeAnalysis.Highlight	19	Assigns attributes usable for coloring to spans inside a snippet.

jdk.net.UnixDomainPrincipal	16	Represents the credentials of a peer connected to a Unix
		domain socket.

## **New Annotation Interfaces**

Annotation Interface \$	Added in \$	Description
java.io.Serial	14	Indicates that an annotated field or method is part of the serialization mechanism defined by the <i>Java Object Serialization Specification</i> .

# **New Fields**

Field <b>♦</b>	Added in \$	Description
java.lang.Character.UnicodeBlock.ARABIC_EXTENDED_B	19	Constant for the "Arabic Extended-B" Unicode character block.
java.lang.Character.UnicodeBlock.ARABIC_EXTENDED_C	20	Constant for the "Arabic Extended-C" Unicode character block.
java.lang.Character.UnicodeBlock.CHESS_SYMBOLS	12	Constant for the "Chess Symbols" Unicode character block.
java.lang.Character.UnicodeBlock.CHORASMIAN	15	Constant for the "Chorasmian" Unicode character block.
java.lang.Character.UnicodeBlock.CJK_UNIFIED_IDEOGRA	15	Constant for the "CJK Unified Ideographs Extension G" Unicode character block.
java.lang.Character.UnicodeBlock.CJK_UNIFIED_IDEOGRA	20	Constant for the "CJK Unified Ideographs Extension H" Unicode character block.
java.lang.Character.UnicodeBlock.CYPRO_MINOAN	19	Constant for the "Cypro-Minoan" Unicode character block.
java.lang.Character.UnicodeBlock.CYRILLIC_EXTENDED_D	20	Constant for the "Cyrillic Extended-D" Unicode character block.
java.lang.Character.UnicodeBlock.DEVANAGARI_EXTENDE	20	Constant for the "Devanagari Extended-A" Unicode character block.
java.lang.Character.UnicodeBlock.DIVES_AKURU	15	Constant for the "Dives Akuru" Unicode character block.
java.lang.Character.UnicodeBlock.DOGRA	12	Constant for the "Dogra" Unicode character block.
java.lang.Character.UnicodeBlock.EGYPTIAN_HIEROGLYPH	13	Constant for the "Egyptian Hieroglyph Format Controls" Unicode character block.
java.lang.Character.UnicodeBlock.ELYMAIC	13	Constant for the "Elymaic" Unicode character block.
java.lang.Character.UnicodeBlock.ETHIOPIC_EXTENDED_E	19	Constant for the "Ethiopic Extended-B" Unicode character block.
java.lang.Character.UnicodeBlock.GEORGIAN_EXTENDED	12	Constant for the "Georgian Extended" Unicode character block.
java.lang.Character.UnicodeBlock.GUNJALA_GONDI	12	Constant for the "Gunjala Gondi" Unicode character block.
java.lang.Character.UnicodeBlock.HANIFI_ROHINGYA	12	Constant for the "Hanifi Rohingya" Unicode character block.
java.lang.Character.UnicodeBlock.INDIC_SIYAQ_NUMBERS	12	Constant for the "Indic Siyaq Numbers" Unicode character block.
java.lang.Character.UnicodeBlock.KAKTOVIK_NUMERALS	20	Constant for the "Kaktovik Numerals" Unicode character block.
java.lang.Character.UnicodeBlock.KANA_EXTENDED_B	19	Constant for the "Kana Extended-B" Unicode character block.
java.lang.Character.UnicodeBlock.KAWI	20	Constant for the "Kawi" Unicode character block.
java.lang.Character.UnicodeBlock.KHITAN_SMALL_SCRIPT	15	Constant for the "Khitan Small Script" Unicode character block.
java.lang.Character.UnicodeBlock.LATIN_EXTENDED_F	19	Constant for the "Latin Extended-F" Unicode character block.

java.lang.Character.UnicodeBlock.LATIN_EXTENDED_G	19	Constant for the "Latin Extended-G" Unicode character block.
java.lang.Character.UnicodeBlock.LISU_SUPPLEMENT	15	Constant for the "Lisu Supplement" Unicode character block.
java.lang.Character.UnicodeBlock.MAKASAR	12	Constant for the "Makasar" Unicode character block.
java.lang.Character.UnicodeBlock.MAYAN_NUMERALS	12	Constant for the "Mayan Numerals" Unicode character block.
java.lang.Character.UnicodeBlock.MEDEFAIDRIN	12	Constant for the "Medefaidrin" Unicode character block.
java.lang.Character.UnicodeBlock.NAG_MUNDARI	20	Constant for the "Nag Mundari" Unicode character block.
java.lang.Character.UnicodeBlock.NANDINAGARI	13	Constant for the "Nandinagari" Unicode character block.
java.lang.Character.UnicodeBlock.NYIAKENG_PUACHUE_H	13	Constant for the "Nyiakeng Puachue Hmong" Unicode character block.
java.lang.Character.UnicodeBlock.OLD_SOGDIAN	12	Constant for the "Old Sogdian" Unicode character block.
java.lang.Character.UnicodeBlock.OLD_UYGHUR	19	Constant for the "Old Uyghur" Unicode character block.
java.lang.Character.UnicodeBlock.OTTOMAN_SIYAQ_NUM	13	Constant for the "Ottoman Siyaq Numbers" Unicode character block.
java.lang.Character.UnicodeBlock.SMALL_KANA_EXTENSI	13	Constant for the "Small Kana Extension" Unicode character block.
java.lang.Character.UnicodeBlock.SOGDIAN	12	Constant for the "Sogdian" Unicode character block.
java.lang.Character.UnicodeBlock.SYMBOLS_AND_PICTOC	13	Constant for the "Symbols and Pictographs Extended-A" Unicode character block.
java.lang.Character.UnicodeBlock.SYMBOLS_FOR_LEGACY	15	Constant for the "Symbols for Legacy Computing" Unicode character block.
java.lang.Character.UnicodeBlock.TAMIL_SUPPLEMENT	13	Constant for the "Tamil Supplement" Unicode character block.
java.lang.Character.UnicodeBlock.TANGSA	19	Constant for the "Tangsa" Unicode character block.
java.lang.Character.UnicodeBlock.TANGUT_SUPPLEMENT	15	Constant for the "Tangut Supplement" Unicode character block.
java.lang.Character.UnicodeBlock.TOTO	19	Constant for the "Toto" Unicode character block.
java.lang.Character.UnicodeBlock.UNIFIED_CANADIAN_AB	19	Constant for the "Unified Canadian Aboriginal Syllabics Extended-A" Unicode character block.
java.lang.Character.UnicodeBlock.VITHKUQI	19	Constant for the "Vithkuqi" Unicode character block.
java.lang.Character.UnicodeBlock.WANCHO	13	Constant for the "Wancho" Unicode character block.
java.lang.Character.UnicodeBlock.YEZIDI	15	Constant for the "Yezidi" Unicode character block.
java.lang.Character.UnicodeBlock.ZNAMENNY_MUSICAL_I	19	Constant for the "Znamenny Musical Notation" Unicode character block.
java.lang.constant.ConstantDescs.BSM_CLASS_DATA	21	MethodHandleDesc representing MethodHandles.classData
java.lang.constant.ConstantDescs.BSM_CLASS_DATA_AT	21	MethodHandleDesc representing MethodHandles.classDataAt
java.lang.constant.ConstantDescs.BSM_EXPLICIT_CAST	15	MethodHandleDesc representing ConstantBootstraps.explicitCast
java.lang.constant.ConstantDescs.BSM_GET_STATIC_FINA	15	MethodHandleDesc representing ConstantBootstraps.getStaticFinal
java.lang.constant.ConstantDescs.CLASS_INIT_NAME	21	The special name of class initialization methods, " <clinit>".</clinit>
java.lang.constant.ConstantDescs.FALSE	15	Nominal descriptor representing the constant Boolean.FALSE

java.lang.constant.ConstantDescs.INIT_NAME	21	The special name of instance initialization methods, " <init>".</init>
java.lang.constant.ConstantDescs.MTD_void	21	Nominal descriptor representing the method descriptor ()V, taking no argument and returning void.
java.lang.constant.ConstantDescs.TRUE	15	Nominal descriptor representing the constant Boolean.TRUE
java.lang.Double.PRECISION	19	The number of bits in the significand of a double value.
java.lang.Float.PRECISION	19	The number of bits in the significand of a float value.
java.lang.invoke.MethodHandles.Lookup.ORIGINAL	16	A single-bit mask representing original access which may contribute to the result of lookupModes.
java.lang.invoke.StringConcatFactory.MAX_INDY_CONCAT	21	Maximum number of argument slots in String Concat call.
java.lang.Math.TAU	19	The double value that is closer than any other to $tau$ $(\tau)$ , the ratio of the circumference of a circle to its radius.
java.lang.StrictMath.TAU	19	The double value that is closer than any other to $tau$ $(\tau)$ , the ratio of the circumference of a circle to its radius.
java.math.BigDecimal.TWO	19	The value 2, with a scale of 0.
java.security.spec.MGF1ParameterSpec.SHA3_224	16	The MGF1ParameterSpec uses a "SHA3-224" message digest.
java.security.spec.MGF1ParameterSpec.SHA3_256	16	The MGF1ParameterSpec uses a "SHA3-256" message digest.
java.security.spec.MGF1ParameterSpec.SHA3_384	16	The MGF1ParameterSpec uses a "SHA3-384" message digest.
java.security.spec.MGF1ParameterSpec.SHA3_512	16	The MGF1ParameterSpec uses a "SHA3-512" message digest.
java.security.spec.NamedParameterSpec.ED25519	15	The Ed25519 parameters
java.security.spec.NamedParameterSpec.ED448	15	The Ed448 parameters
java.text.NumberFormat.Field.PREFIX	12	Constant identifying the prefix field.
java.text.NumberFormat.Field.SUFFIX	12	Constant identifying the suffix field.
java.time.chrono.JapaneseEra.REIWA	13	The singleton instance for the 'Reiwa' era (2019-05-01 - ) which has the value $3$ .
javax.security.auth.kerberos.KerberosPrincipal.KRB_NT_I	13	Enterprise name (alias)
javax.xml.crypto.dsig.CanonicalizationMethod.INCLUSIVI	13	The Canonical XML 1.1 (without comments) ™ canonicalization method algorithm URI.
javax.xml.crypto.dsig.CanonicalizationMethod.INCLUSIVI	13	The Canonical XML 1.1 with comments ™ canonicalization method algorithm URI.
javax.xml.crypto.dsig.SignatureMethod.ED25519	21	The ED25519 <sup>™</sup> signature method algorithm URI.
javax.xml.crypto.dsig.SignatureMethod.ED448	21	The ED448 <sup>™</sup> signature method algorithm URI.
javax.xml.crypto.dsig.SignatureMethod.RSA_PSS	17	The RSASSA-PSS™ signature method algorithm URI.
jdk.incubator.vector.VectorOperators.BIT_COUNT	19	Produce bitCount(a)
jdk.incubator.vector.VectorOperators.COMPRESS_BITS	19	Produce compress(a,n).
jdk.incubator.vector.VectorOperators.EXPAND_BITS	19	Produce expand(a,n).
jdk.incubator.vector.VectorOperators.LEADING_ZEROS_CO	19	Produce numberOfLeadingZeros(a)
jdk.incubator.vector.VectorOperators.REVERSE	19	Produce reverse(a)
jdk.incubator.vector.VectorOperators.REVERSE_BYTES	19	Produce reverseBytes(a)
jdk.incubator.vector.VectorOperators.TRAILING_ZEROS_C	19	Produce numberOfTrailingZeros(a)
jdk.net.ExtendedSocketOptions.SO_INCOMING_NAPI_ID	15	Identifies the receive queue that the last incoming packet for the socket was received on.
s://docs.oracle.com/en/java/javase/21/docs/api/new-list.html		

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 $jdk.net. Extended Socket Options. SO\_PEER CRED$ 

Unix Domain peer credentials.

# **New Methods**

Method 1         Added in 2         Description           com.sun.jdl.request.ThreadDeathRequest.addPlatformTrill         21         Restrict the ewests generated by this request to only platform threads.           com.sun.jdl.request.ThreadStartRequest.addPlatformTrill         21         Returns frue if the thread is a virtual bread.           com.sun.management.HotSpotDlagnosticMXBean.dump?         21         Returns frue if the thread is a virtual bread.           com.sun.management.OperatingSystemMXBean.getFort         14         Returns the "recent cpu usage" for the operating Given the control of the operating Control of the control of the operating Control of the control of the control of the operating Control of the			
plations through.  com.sun,idil.request.ThreadStartRequest.ddPlatformTh 22 Restures the events generated by this request to only platform through.  com.sun.management. HoSpotDiagnosticHXISean.dumpl 21 Schrifts, MetSpotDiagnosticHXISean.dumpl 21 Cemestre a thread dump to the given file in the given format.  Com.sun.management.OperatingSystemMXBean.getCpul 14 Returns the "recent cpu usage" for the operating continuous.  com.sun.management.OperatingSystemMXBean.getTree 14 Returns the amount of free numory in bytes.  com.sun.management.OperatingSystemMXBean.getTree 14 Returns the total amount of memory in bytes.  com.sun.management.ThreadMXBean.getTota 14 Returns the total amount of memory in bytes.  com.sun.management.ThreadMXBean.getTota 14 Returns an approximation of the total amount of memory in bytes.  com.sun.management.ThreadMXBean.getTotalThreadAll 21 Returns an approximation of the total amount of memory in bytes.  com.sun.management.ThreadMXBean.getTotalThreadAll 21 Returns an approximation of the total amount of memory in bytes.  com.sun.met.httpserver.Filter.adapstRequest(String, 18 Returns an approximation of the total amount of memory in bytes.  com.sun.met.httpserver.Filter.adapstRequest(String, 17 Returns a post-processing Filter with the given described and upcartion.  com.sun.met.httpserver.filter.afterHandler(String, 17 Returns a post-processing Filter with the given described and upcartion.  com.sun.met.httpserver.filter.afterHandler(String, 17 Returns a pre-processing Filter with the given described and upcartion.  com.sun.met.httpserver.filtes.efterellandler(String, 18 Returns a pre-processing Filter with the given described and upcartion.  com.sun.met.httpserver.filtpserver.readers.of(Map-String, 18 Returns a pre-processing Filter with the given described and upcartion.  com.sun.met.httpserver.filtpserver.readers.of(String, 18 Returns to minutable Headers with the given name value pairs as its set of headers.  com.sun.met.httpserver.filtpserver.create (Inter-Operation of the total unitable Re	Method	Added in \$	Description
com.sun.management.HotSpotDiagnosticMXBean.getTotal TreadRean.getTotal	com.sun.jdi.request.ThreadDeathRequest.addPlatformTh	21	
Com.sun.management.HotSpotDiagnosticMXBean.dump1 21 (String, MotspotDiagnosticMXBean.ThreadDumpFormat)  Com.sun.management.OperatingSystemMXBean.getCput 14 Returns the amount of free memory in bytes.  Com.sun.management.OperatingSystemMXBean.getTota 14 Returns the amount of free memory in bytes.  Com.sun.management.OperatingSystemMXBean.getTota 14 Returns the amount of free memory in bytes.  Com.sun.management.ThreadMXBean.getCortentThread 14 Returns the lotal amount of memory in bytes.  Com.sun.management.ThreadMXBean.getCortentThread 14 Returns an approximation of the total amount of memory, in bytes, allocated in heap memory for the current thread.  Com.sun.management.ThreadMXBean.getTotalThreadAll 21 Returns an upproximation of the total amount of memory, in bytes, allocated in heap memory for the current thread.  Com.sun.met.httpserver.FiltecafferHandler(String, 17 Returns an upproximation of the total amount of memory, in bytes, allocated in heap memory for the current thread sance the laws virtual machine started.  Com.sun.net.httpserver.FiltecafferHandler(String, 17 Returns an upproximation of the total amount of memory, in bytes, allocated in heap memory for the current thread sance the processing Filter than itsperts and possibly adapts the request state.  Com.sun.net.httpserver.FiltecafferHandler(String, 17 Returns a post-processing Filter with the given description and operation.  Com.sun.net.httpserver.Headers.of(Map~String, 18 Returns a minutable Headers from the given handers with Easter soft headers.  Com.sun.net.httpserver.HttpServer.create (IntelSecketAddress, Int. String, HttpHandler, Filter)  Com.sun.net.httpserver.HttpServer.create (IntelSecketAddress, Int. String, HttpHandler, Filter)  Com.sun.net.httpserver.HttpServer.create (IntelSecketAddress, Int. String, HttpHandler, Filter)  Com.sun.sunce.doctree.DecTreeVisitor.visitSpec (21 Visits an EscapeTree node.  (SeptCrine, P)  Com.sun.source.doctree.DecTreeVisitor.visitSpec (22 Visits an EscapeTree node.  (SeptCrine, P)  Com.sun.sour	com.sun.jdi.request.ThreadStartRequest.addPlatformThr	21	
String,	com.sun.jdi.ThreadReference.isVirtual()	21	Returns true if the thread is a virtual thread.
com.sun.management.OperatingSystemMXBean.getFree	(String,	21	
com.sun.management.OperatingSystemMXBean.getTotal 14 Returns the total amount of memory in bytes.  com.sun.management.ThreadMXBean.getCurrentThread 14 Returns an approximation of the total amount of memory, in bytes, allocated in heap memory for the current thread.  com.sun.management.ThreadMXBean.getTotalThreadAlli 21 Returns an approximation of the total amount of memory, in bytes, allocated in heap memory by all threads since the Java virtual machine started.  com.sun.net.httpserver.Filter.adaptRequest(String, land threads since the Java virtual machine started.  com.sun.net.httpserver.Filter.afterHandler(String, land description and operation.  com.sun.net.httpserver.Filter.afterHandler(String, land description and operation.  com.sun.net.httpserver.Filter.afterHandler(String, land description and operation.  com.sun.net.httpserver.Hiter.beforeHandler(String, land description and operation.  com.sun.net.httpserver.Headers.of(String) land Returns a pre-processing Filter with the given description and operation.  com.sun.net.httpserver.Headers.of(Map <string, (land="" and="" com.sun.net.httpserver.headers.of(map<string,="" com.sun.net.httpserver.httpserver.create="" description="" land="" land<="" operation.="" operation.)="" td=""><td>com.sun.management.OperatingSystemMXBean.getCpul</td><td>14</td><td></td></string,>	com.sun.management.OperatingSystemMXBean.getCpul	14	
com.sun.management.ThreadMXBean.getCurrentThread   Returns an approximation of the total amount of memory, in bytes, allocated in heap memory for the current thread.  com.sun.management.ThreadMXBean.getTotalThreadAll   Returns an approximation of the total amount of memory, in bytes, allocated in heap memory by all throads since the Juva virtual machine started.  com.sun.net.httpserver.Filter.adaptRequest(String,	com.sun.management.OperatingSystemMXBean.getFree	14	Returns the amount of free memory in bytes.
memory, in bytes, allocated in heap memory for the current thread.   21	com.sun.management.OperatingSystemMXBean.getTota	14	Returns the total amount of memory in bytes.
memory, in bytes, allocated in heap memory by all threads since the Java virtual machine started.  com.sun.net.httpserver.Filter.adaptRequest(String, UnaryOperator~Request>)  com.sun.net.httpserver.Filter.afterHandler(String, Consumer-HttpExchange>)  com.sun.net.httpserver.Filter.beforeHandler(String, Consumer-HttpExchange>)  com.sun.net.httpserver.Headers.of(String)  com.sun.net.httpserver.Headers.of(String)  18 Returns a pre-processing Filter with the given description and operation.  com.sun.net.httpserver.Headers.of(String)  18 Returns an immutable Headers with the given name value pairs as its set of headers.  com.sun.net.httpserver.Headers.of(Map <string, (escapetee,="" (inetsocketaddress,="" (sinjpettree,="" (systempropertytree="" 12="" 18="" 20="" 21="" an="" and="" case.="" case.<="" com.sun.net.httpserver.httpserver.create="" com.sun.source.doctree.doctreevisitor.visitescape="" com.sun.source.doctree.doctreevisitor.visitspee="" com.sun.source.doctree.doctreevisitor.visitsystempropt="" com.sun.source.doctree.valuetree.getformat()="" com.sun.source.tree.casetree.getbody()="" com.sun.source.tree.casetree.getexpressions()="" filter)="" for="" format="" from="" given="" header="" headers="" httphandler,="" if="" immutable="" int,="" kind="" labels="" list-string)="" names="" nane="" node.="" null="" of="" or="" p)="" provided.="" returns="" same="" string,="" td="" the="" this="" values.="" was="" with=""><td>com.sun.management.ThreadMXBean.getCurrentThread</td><td>14</td><td>memory, in bytes, allocated in heap memory for the</td></string,>	com.sun.management.ThreadMXBean.getCurrentThread	14	memory, in bytes, allocated in heap memory for the
Com.sun.net.httpserver.Filter.afterHandler(String, Consumer   Com.sun.net.httpserver.Filter.afterHandler(String, Consumer   Com.sun.net.httpserver.Filter.afterHandler(String, Consumer   HttpExchanges   Com.sun.net.httpserver.HttpExchanges   Com.sun.net.httpserver.Headers.of(String)     17     Returns a pro-processing Filter with the given description and operation.       com.sun.net.httpserver.Headers.of(String)     18     Returns an immutable Headers with the given name value pairs as its set of headers.       com.sun.net.httpserver.Headers.of(Map <string, list<="" td="">     18     Returns an immutable Headers from the given name value pairs as its set of headers.       com.sun.net.httpserver.HttpServer.create (InetSocketAddress, int, String, HttpHandler, Filter)     18     Creates an HttpServer instance with an initial context.       com.sun.net.httpserver.HttpServer.create (InetSocketAddress, int, String, HttpHandler, Filter)     18     Creates an HttpServer instance with an initial context.       com.sun.source.doctree.DocTreeVisitor.visitEscape (EscapeTree, P)     21     Visits an EscapeTree node.       com.sun.source.doctree.DocTreeVisitor.visitSptec (SpecTree, P)     20     Visits a SpecTree node.       com.sun.source.doctree.DocTreeVisitor.visitSystemPropertyTree, P)     20     Returns whether this instance is an inline tag.       com.sun.source.doctree.ReturnTree.isInline()     16     Returns the format string, or null if none was provided.       com.sun.source.doctree.GaeTree.getBody()     12     For case with kind CaseTree.CaseKind.RULE, returns the statement or expression after the arrow.    <t< td=""><td>com.sun.management.ThreadMXBean.getTotalThreadAlle</td><td>21</td><td>memory, in bytes, allocated in heap memory by all</td></t<></string,>	com.sun.management.ThreadMXBean.getTotalThreadAlle	21	memory, in bytes, allocated in heap memory by all
com.sun.net.httpserver.HttpServer.Create (InetSocketAddress, int, String, HttpHandler, Filter) com.sun.source.doctree.DocTreeVisitor.visitEscape (EscapeTree, P) com.sun.source.doctree.DocTreeVisitor.visitSpec (SpecTree, P) com.sun.source.doctree.DocTreeVisitor.visitSystemPropertyTree node. com.sun.source.doctree.DocTreeVisitor.visitSystemPropertyTree, P) com.sun.source.doctree.DocTreeVisitor.visitSystemPropertyTree node. com.sun.source.doctree.CaseTree.getFormat() 20 Returns the format string, or null if none was provided. com.sun.source.tree.CaseTree.getEsperssions() 12 Returns the kind of this case. com.sun.source.tree.CaseTree.getExpressions() 12 Returns the labels for this case. com.sun.source.tree.CaseTree.getExpressions() 21 The guard for the case. com.sun.source.tree.CaseTree.getLabels() 21 Returns the labels for this case.		18	
com.sun.net.httpserver.Headers.of(String)  com.sun.net.httpserver.Headers.of(Map <string) (escapetree="" (inetsocketaddress,="" (shippettree,="" (systempropertytree,="" 12="" 16="" 20="" 21="" a="" an="" and="" as="" case.="" case.<="" com.sun.net.httpserver.headers.of(map<string)="" com.sun.net.httpserver.headers.of(map<string,="" com.sun.net.httpserver.httpserver.create="" com.sun.source.doctree.doctreevisitor.visitescape="" com.sun.source.doctree.doctreevisitor.visitspippet="" com.sun.source.doctree.doctreevisitor.visitsystempropertytree,="" com.sun.source.doctree.returntree.isinline()="" com.sun.source.doctree.valuetree.getformat()="" com.sun.source.tree.casetree.getbody()="" com.sun.source.tree.casetree.getexpressions()="" com.sun.source.tree.casetree.getlabels()="" filter)="" for="" format="" from="" given="" guard="" header="" headers="" headers.="" httphandler,="" if="" immutable="" inline="" instance="" int,="" is="" its="" kind="" l8="" name="" names="" node.="" none="" null="" of="" or="" p)="" pairs="" provided.="" returns="" same="" set="" spectree="" string,="" tag.="" td="" the="" this="" value="" values.="" visits="" was="" whether="" with=""><td></td><td>17</td><td></td></string)>		17	
com.sun.net.httpserver.Headers.of(Map <string, list<string="">&gt;)  com.sun.net.httpserver.HttpServer.create (InetSocketAddress, int, String, HttpHandler, Filter)  com.sun.net.httpserver.HttpServer.create (InetSocketAddress, int, String, HttpHandler, Filter)  com.sun.net.httpserver.HttpServer.create (InetSocketAddress, int, String, HttpHandler, Filter)  com.sun.source.doctree.DocTreeVisitor.visitEscape (IEscapeTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSnippet (SpecTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSystemPropet 12  com.sun.source.doctree.DocTreeVisitor.visitSystemPropet 12  com.sun.source.doctree.DocTreeVisitor.visitSystemPropetyTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSystemPropetyTree, P)  com.sun.source.doctree.ReturnTree.Isinline() 16 Returns whether this instance is an inline tag.  com.sun.source.doctree.ValueTree.getFormat() 20 Returns the format string, or null if none was provided.  com.sun.source.tree.CaseTree.getBody() 12 Returns the kind CaseTree.CaseKind.RULE, returns the statement or expression after the arrow.  com.sun.source.tree.CaseTree.getCaseKind() 12 Returns the labels for this case.  com.sun.source.tree.CaseTree.getExpressions() 21 The guard for the case.  com.sun.source.tree.CaseTree.getExpressions() 21 Returns the labels for this case.</string,>		17	
List <string>&gt;) with the same header names and values.  com.sun.net.httpserver.Http5erver.create (InetSocketAddress, int, String, HttpHandler, Filter)  com.sun.net.httpserver.Http5erver.create (InetSocketAddress, int, String, HttpHandler, Filter)  com.sun.source.doctree.DocTreeVisitor.visitEscape (EscapeTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSpec (SpecTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSpec (SpecTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSpec (SystemPropertyTree node.  (SystemPropertyTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSystemProper 12 (SystemPropertyTree node.  com.sun.source.doctree.ReturnTree.isInline() 16 Returns whether this instance is an inline tag.  com.sun.source.doctree.ValueTree.getFormat() 20 Returns the format string, or null if none was provided.  com.sun.source.tree.CaseTree.getBody() 12 Returns the kind of this case.  com.sun.source.tree.CaseTree.getExpressions() 12 Returns the kind of this case.  com.sun.source.tree.CaseTree.getExpressions() 21 The guard for the case.  com.sun.source.tree.CaseTree.getGuard() 21 Returns the labels for this case.</string>	com.sun.net.httpserver.Headers.of(String)	18	
(InetSocketAddress, int, String, HttpHandler, Filter)  com.sun.net.httpserver.HttpsServer.create (InetSocketAddress, int, String, HttpHandler, Filter)  com.sun.source.doctree.DocTreeVisitor.visitEscape (EscapeTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSnippet (SnippetTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSpec (SpecTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSpec (SpecTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSystemPropet (SystemPropertyTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSystemPropet (SystemPropertyTree, P)  com.sun.source.doctree.ValueTree.getFormat()  com.sun.source.doctree.ValueTree.getFormat()  com.sun.source.tree.CaseTree.getBody()  12 For case with kind CaseTree.CaseKind.RULE, returns the statement or expression after the arrow.  com.sun.source.tree.CaseTree.getExpressions()  12 Returns the labels for this case.  com.sun.source.tree.CaseTree.getEuard()  21 The guard for the case.  com.sun.source.tree.CaseTree.getLabels()  21 Returns the labels for this case.		18	
Com.sun.source.doctree.DocTreeVisitor.visitEscape (EscapeTree, P)   21   Visits an EscapeTree node.		18	Creates an HttpServer instance with an initial context.
(EscapeTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSpec (SpecTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSpec (SpecTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSystemProper (SystemPropertyTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSystemProper (SystemPropertyTree, P)  com.sun.source.doctree.ReturnTree.isInline() 16 Returns whether this instance is an inline tag.  com.sun.source.doctree.ValueTree.getFormat() 20 Returns the format string, or null if none was provided.  com.sun.source.tree.CaseTree.getBody() 12 For case with kind CaseTree.CaseKind.RULE, returns the statement or expression after the arrow.  com.sun.source.tree.CaseTree.getExpressions() 12 Returns the kind of this case.  com.sun.source.tree.CaseTree.getGuard() 21 The guard for the case.  com.sun.source.tree.CaseTree.getLabels() 21 Returns the labels for this case.	·	18	Creates an HttpsServer instance with an initial context.
(SnippetTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSpec (SpecTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSystemPrope (SystemPropertyTree, P)  com.sun.source.doctree.ReturnTree.isInline() 16 Returns whether this instance is an inline tag.  com.sun.source.doctree.ValueTree.getFormat() 20 Returns the format string, or null if none was provided.  com.sun.source.tree.CaseTree.getBody() 12 For case with kind CaseTree.CaseKind.RULE, returns the statement or expression after the arrow.  com.sun.source.tree.CaseTree.getCaseKind() 12 Returns the kind of this case.  com.sun.source.tree.CaseTree.getExpressions() 12 Returns the labels for this case.  com.sun.source.tree.CaseTree.getGuard() 21 The guard for the case.  com.sun.source.tree.CaseTree.getLabels() 21 Returns the labels for this case.	-	21	Visits an EscapeTree node.
(SpecTree, P)  com.sun.source.doctree.DocTreeVisitor.visitSystemPrope 12 (SystemPropertyTree, P)  com.sun.source.doctree.ReturnTree.isInline() 16 Returns whether this instance is an inline tag.  com.sun.source.doctree.ValueTree.getFormat() 20 Returns the format string, or null if none was provided.  com.sun.source.tree.CaseTree.getBody() 12 For case with kind CaseTree.CaseKind.RULE, returns the statement or expression after the arrow.  com.sun.source.tree.CaseTree.getCaseKind() 12 Returns the kind of this case.  com.sun.source.tree.CaseTree.getExpressions() 12 Returns the labels for this case.  com.sun.source.tree.CaseTree.getGuard() 21 The guard for the case.  com.sun.source.tree.CaseTree.getLabels() 21 Returns the labels for this case.	· ·	18	Visits a SnippetTree node.
(SystemPropertyTree, P)  com.sun.source.doctree.ReturnTree.isInline()  com.sun.source.doctree.ValueTree.getFormat()  com.sun.source.tree.CaseTree.getBody()  12  For case with kind CaseTree.CaseKind.RULE, returns the statement or expression after the arrow.  com.sun.source.tree.CaseTree.getCaseKind()  12  Returns the kind of this case.  com.sun.source.tree.CaseTree.getExpressions()  12  Returns the labels for this case.  com.sun.source.tree.CaseTree.getGuard()  21  The guard for the case.  com.sun.source.tree.CaseTree.getLabels()  21  Returns the labels for this case.	-	20	Visits a SpecTree node.
com.sun.source.tree.CaseTree.getBody()  12 For case with kind CaseTree.CaseKind.RULE, returns the statement or expression after the arrow.  com.sun.source.tree.CaseTree.getCaseKind()  12 Returns the kind of this case.  com.sun.source.tree.CaseTree.getExpressions()  12 Returns the labels for this case.  com.sun.source.tree.CaseTree.getGuard()  21 The guard for the case.  com.sun.source.tree.CaseTree.getLabels()  21 Returns the labels for this case.		12	Visits a SystemPropertyTree node.
com.sun.source.tree.CaseTree.getBody()12For case with kind CaseTree.CaseKind.RULE, returns the statement or expression after the arrow.com.sun.source.tree.CaseTree.getCaseKind()12Returns the kind of this case.com.sun.source.tree.CaseTree.getExpressions()12Returns the labels for this case.com.sun.source.tree.CaseTree.getGuard()21The guard for the case.com.sun.source.tree.CaseTree.getLabels()21Returns the labels for this case.	com.sun.source.doctree.ReturnTree.isInline()	16	Returns whether this instance is an inline tag.
the statement or expression after the arrow.  com.sun.source.tree.CaseTree.getCaseKind()  12 Returns the kind of this case.  com.sun.source.tree.CaseTree.getExpressions()  12 Returns the labels for this case.  com.sun.source.tree.CaseTree.getGuard()  21 The guard for the case.  com.sun.source.tree.CaseTree.getLabels()  21 Returns the labels for this case.	com.sun.source.doctree.ValueTree.getFormat()	20	Returns the format string, or null if none was provided.
com.sun.source.tree.CaseTree.getExpressions()  12 Returns the labels for this case.  com.sun.source.tree.CaseTree.getGuard()  21 The guard for the case.  com.sun.source.tree.CaseTree.getLabels()  21 Returns the labels for this case.	com.sun.source.tree.CaseTree.getBody()	12	
com.sun.source.tree.CaseTree.getGuard()  com.sun.source.tree.CaseTree.getLabels()  21 The guard for the case.  Returns the labels for this case.	com.sun.source.tree.CaseTree.getCaseKind()	12	Returns the kind of this case.
com.sun.source.tree.CaseTree.getLabels() 21 Returns the labels for this case.	com.sun.source.tree.CaseTree.getExpressions()	12	Returns the labels for this case.
	com.sun.source.tree.CaseTree.getGuard()	21	The guard for the case.
//docs.oracle.com/en/java/javase/21/docs/ani/new.list.html	_	21	Returns the labels for this case.

com.sun.source.tree.ClassTree.getPermitsClause()	17	Returns the subclasses permitted by this type declaration.
com.sun.source.tree.CompilationUnitTree.getModule()	17	Returns the module tree associated with this compilation unit, or null if there is no module declaration.
com.sun.source.tree.InstanceOfTree.getPattern()	16	Returns the tested pattern, or null if this instanceof does not use a pattern.
com.sun.source.tree.TreeVisitor.visitAnyPattern (AnyPatternTree, P)PREVIEW	21	Visits a AnyPatternTree node.
com.sun.source.tree.TreeVisitor.visitBindingPattern (BindingPatternTree, P)	16	Visits a BindingPatternTree node.
com.sun.source.tree.TreeVisitor.visitConstantCaseLabel (ConstantCaseLabelTree, P)	21	Visits a ConstantCaseLabelTree node.
com.sun.source.tree.TreeVisitor.visitDeconstructionPatte (DeconstructionPatternTree, P)	21	Visits a DeconstructionPatternTree node.
com.sun.source.tree.TreeVisitor.visitDefaultCaseLabel	21	Visits a DefaultCaseLabelTree node.
(DefaultCaseLabelTree, P)  com.sun.source.tree.TreeVisitor.visitPatternCaseLabel	21	Visits a PatternCaseLabelTree node.
(PatternCaseLabelTree, P)		VISITS à PatterneaseLabetirée node.
com.sun.source.tree.TreeVisitor.visitSwitchExpression (SwitchExpressionTree, P)	12	Visits a SwitchExpressionTree node.
com.sun.source.tree.TreeVisitor.visitYield(YieldTree, P)	13	Visits a YieldTree node.
com.sun.source.util.DocTreeFactory.newEscapeTree (char)	21	Creates a new EscapeTree object, to represent an escaped character.
com.sun.source.util.DocTreeFactory.newReturnTree (boolean, List extends DocTree )	16	Creates a new ReturnTree object, to represent a @return tag or {@return} tag.
<pre>com.sun.source.util.DocTreeFactory.newSnippetTree (List<? extends DocTree>, TextTree)</pre>	18	Creates a new SnippetTree object, to represent a {@snippet } tag.
com.sun.source.util.DocTreeFactory.newSpecTree (TextTree, List extends DocTree )	20	Creates a new SpecTree object, to represent an @spec tag.
com.sun.source.util.DocTreeFactory.newSystemProperty(Name)	12	Creates a new SystemPropertyTree object, to represent a {@systemProperty } tag.
com.sun.source.util.DocTreeFactory.newValueTree (TextTree, ReferenceTree)	20	Creates a new ValueTree object, to represent a {@value} tag.
com.sun.source.util.DocTrees.getType(DocTreePath)	15	Returns the language model type referred to by the leaf node of the given DocTreePath, or null if unknown.
com.sun.source.util.DocTreeScanner.visitEscape (EscapeTree, P)	21	Visits an EscapeTree node.
com.sun.source.util.DocTreeScanner.visitSnippet (SnippetTree, P)	18	Visits a SnippetTree node.
com.sun.source.util.DocTreeScanner.visitSpec (SpecTree, P)	20	Visits a SpecTree node.
com.sun.source.util.DocTreeScanner.visitSystemProperty (SystemPropertyTree, P)	12	Visits a SystemPropertyTree node.
com.sun.source.util.JavacTask.setParameterNameProvide (ParameterNameProvider)	13	Sets the specified ParameterNameProvider.
com.sun.source.util.SimpleDocTreeVisitor.visitEscape (EscapeTree, P)	21	Visits an EscapeTree node.
com.sun.source.util.SimpleDocTreeVisitor.visitSnippet (SnippetTree, P)	18	Visits a SnippetTree node.
com.sun.source.util.SimpleDocTreeVisitor.visitSpec (SpecTree, P)	20	Visits a SpecTree node.
com.sun.source.util.SimpleDocTreeVisitor.visitSystemPro (SystemPropertyTree, P)	12	Visits a SystemPropertyTree node.

1/23, 3.23 FIVI	New Art List (Ja	va SE 21 & JDK 21)
com.sun.source.util.SimpleTreeVisitor.visitAnyPattern (AnyPatternTree, P)PREVIEW	21	Visits a AnyPatternTree node.
com.sun.source.util.SimpleTreeVisitor.visitBindingPatter (BindingPatternTree, P)	14	Visits a BindingPatternTree node.
com.sun.source.util.SimpleTreeVisitor.visitConstantCase (ConstantCaseLabelTree, P)	21	Visits a ConstantCaseLabelTree node.
com.sun.source.util.SimpleTreeVisitor.visitDeconstruction(DeconstructionPatternTree, P)	21	Visits a DeconstructionPatternTree node.
com.sun.source.util.SimpleTreeVisitor.visitDefaultCaseLa (DefaultCaseLabelTree, P)	21	Visits a DefaultCaseLabelTree node.
com.sun.source.util.SimpleTreeVisitor.visitPatternCaseLa (PatternCaseLabelTree, P)	: 21	Visits a PatternCaseLabelTree node.
com.sun.source.util.TreeScanner.visitAnyPattern (AnyPatternTree, P)  PREVIEW	21	Visits a AnyPatternTree node.
com.sun.source.util.TreeScanner.visitBindingPattern (BindingPatternTree, P)	14	Visits a BindingPatternTree node.
com.sun.source.util.TreeScanner.visitConstantCaseLabel (ConstantCaseLabelTree, P)	21	Visits a ConstantCaseLabelTree node.
com.sun.source.util.TreeScanner.visitDeconstructionPatt (DeconstructionPatternTree, P)	: 21	Visits a DeconstructionPatternTree node.
com.sun.source.util.TreeScanner.visitDefaultCaseLabel	21	Visits a DefaultCaseLabelTree node.
(DefaultCaseLabelTree, P)  com.sun.source.util.TreeScanner.visitPatternCaseLabel (PatternCaseLabelTree, P)	21	Visits a PatternCaseLabelTree node.
java.io.Console.charset()	17	Returns the Charset object used for the Console.
java.io.InputStream.skipNBytes(long)	12	Skips over and discards exactly n bytes of data from this input stream.
java.io.ObjectInputFilter.allowFilter(Predicate <class<?>&gt;, ObjectInputFilter.Status)</class<?>	17	Returns a filter that returns Status.ALLOWED if the predicate on the class is true.
java.io.ObjectInputFilter.Config.getSerialFilterFactory()	17	Returns the JVM-wide deserialization filter factory.
java.io.ObjectInputFilter.Config.setSerialFilterFactory (BinaryOperator <objectinputfilter>)</objectinputfilter>	17	Set the JVM-wide deserialization filter factory.
java.io.ObjectInputFilter.merge(ObjectInputFilter, ObjectInputFilter)	17	Returns a filter that merges the status of a filter and another filter.
<pre>java.io.ObjectInputFilter.rejectFilter(Predicate<class<?>&gt;, ObjectInputFilter.Status)</class<?></pre>	17	Returns a filter that returns Status.REJECTED if the predicate on the class is true.
java.io.ObjectInputFilter.rejectUndecidedClass (ObjectInputFilter)	17	Returns a filter that invokes a given filter and maps UNDECIDED to REJECTED for classes, with some special cases, and otherwise returns the status.
java.io.PrintStream.charset()	18	Returns the charset used in this PrintStream instance.
java.io.PrintStream.write(byte[])	14	Writes all bytes from the specified byte array to this stream.
java.io.PrintStream.writeBytes(byte[])	14	Writes all bytes from the specified byte array to this stream.
java.lang.Boolean.describeConstable()	15	Returns an Optional containing the nominal descriptor for this instance.
java.lang.Byte.describeConstable()	15	Returns an Optional containing the nominal descriptor for this instance.
java.lang.Character.describeConstable()	15	Returns an Optional containing the nominal descriptor for this instance.
java.lang.Character.isEmoji(int)	21	Determines if the specified character (Unicode code point) is an Emoji.

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java.lang.Character.isEmojiComponent(int)	21	Determines if the specified character (Unicode code point) is an Emoji Component.
java.lang.Character.isEmojiModifier(int)	21	Determines if the specified character (Unicode code point) is an Emoji Modifier.
java.lang.Character.isEmojiModifierBase(int)	21	Determines if the specified character (Unicode code point) is an Emoji Modifier Base.
java.lang.Character.isEmojiPresentation(int)	21	Determines if the specified character (Unicode code point) has the Emoji Presentation property by default.
java.lang.Character.isExtendedPictographic(int)	21	Determines if the specified character (Unicode code point) is an Extended Pictographic.
java.lang.CharSequence.isEmpty()	15	Returns true if this character sequence is empty.
java.lang.Class.accessFlags()	20	Returns an unmodifiable set of the access flags for this class, possibly empty.
java.lang.Class.arrayType()	12	Returns a Class for an array type whose component type is described by this Class.
java.lang.Class.componentType()	12	Returns the component type of this Class, if it describes an array type, or null otherwise.
java.lang.Class.describeConstable()	12	Returns a nominal descriptor for this instance, if one can be constructed, or an empty <code>Optional</code> if one cannot be.
java.lang.Class.descriptorString()	12	Returns the descriptor string of the entity (class, interface, array class, primitive type, or void) represented by this Class object.
java.lang.Class.getPermittedSubclasses()	17	Returns an array containing Class objects representing the direct subinterfaces or subclasses permitted to extend or implement this class or interface if it is sealed.
java.lang.Class.getRecordComponents()	16	Returns an array of RecordComponent objects representing all the record components of this record class, or null if this class is not a record class.
java.lang.Class.isHidden()	15	Returns true if and only if the underlying class is a hidden class.
java.lang.Class.isRecord()	16	Returns true if and only if this class is a record class.
java.lang.Class.isSealed()	17	Returns true if and only if this Class object represents a sealed class or interface.
java.lang.Class.isUnnamedClass()PREVIEW	21	Returns true if and only if the underlying class is an unnamed class.
java.lang.constant.ClassDesc.ofInternalName(String)	20	Returns a ClassDesc for a class or interface type, given the name of the class or interface in internal form, such as "java/lang/String".
java.lang.constant.MethodTypeDesc.of(ClassDesc)	21	Returns a MethodTypeDesc with the given return type and no parameter types.
<pre>java.lang.constant.MethodTypeDesc.of(ClassDesc, List<classdesc>)</classdesc></pre>	21	Returns a MethodTypeDesc given the return type and a list of parameter types.
java.lang.Double.describeConstable()	12	Returns an Optional containing the nominal descriptor for this instance, which is the instance itself.
java.lang.Double.resolveConstantDesc (MethodHandles.Lookup)	12	Resolves this instance as a ConstantDesc, the result of which is the instance itself.
java.lang.Enum.describeConstable()	12	Returns an enum descriptor EnumDesc for this instance, if one can be constructed, or an empty Optional if one cannot be.
java.lang.Enum.EnumDesc.of(ClassDesc, String)	12	Returns a nominal descriptor for the specified enum class and name
java.lang.Float.describeConstable()	12	Returns an Optional containing the nominal descriptor for this instance, which is the instance itself.
java.lang.Float.float16ToFloat(short)	20	Returns the float value closest to the numerical value of the argument, a floating-point binary16 value encoded in a short.

java.lang.Float.floatToFloat16(float)	20	Returns the floating-point binary16 value, encoded in a short, closest in value to the argument.
java.lang.Float.resolveConstantDesc (MethodHandles.Lookup)	12	Resolves this instance as a ConstantDesc, the result of which is the instance itself.
java.lang.Integer.compress(int, int)	19	Returns the value obtained by compressing the bits of the specified int value, i, in accordance with the specified bit mask.
java.lang.Integer.describeConstable()	12	Returns an Optional containing the nominal descriptor for this instance, which is the instance itself.
java.lang.Integer.expand(int, int)	19	Returns the value obtained by expanding the bits of the specified int value, i, in accordance with the specified bit mask.
java.lang.Integer.resolveConstantDesc (MethodHandles.Lookup)	12	Resolves this instance as a ConstantDesc, the result of which is the instance itself.
java.lang.invoke.ConstantBootstraps.explicitCast (MethodHandles.Lookup, String, Class , Object)	15	Applies a conversion from a source type to a destination type.
java.lang.invoke.MethodHandle.describeConstable()	12	Return a nominal descriptor for this instance, if one can be constructed, or an empty Optional if one cannot be.
java.lang.invoke.MethodHandles.classData (MethodHandles.Lookup, String, Class <t>)</t>	16	Returns the <i>class data</i> associated with the lookup class of the given caller lookup object, or null.
java.lang.invoke.MethodHandles.classDataAt (MethodHandles.Lookup, String, Class <t>, int)</t>	16	Returns the element at the specified index in the class data, if the class data associated with the lookup class of the given caller lookup object is a List.
java.lang.invoke.MethodHandles.collectCoordinates (VarHandle, int, MethodHandle) <sup>PREVIEW</sup>	19	Adapts a target var handle by pre-processing a subsequence of its coordinate values with a filter (a method handle).
java.lang.invoke.MethodHandles.dropCoordinates (VarHandle, int, Class )  PREVIEW	19	Returns a var handle which will discard some dummy coordinates before delegating to the target var handle.
java.lang.invoke.MethodHandles.dropReturn (MethodHandle)	16	Drop the return value of the target handle (if any).
java.lang.invoke.MethodHandles.filterCoordinates (VarHandle, int, MethodHandle)  PREVIEW	19	Adapts a target var handle by pre-processing incoming coordinate values using unary filter functions.
java.lang.invoke.MethodHandles.filterValue(VarHandle, MethodHandle, MethodHandle)  PREVIEW	19	Adapts a target var handle by pre-processing incoming and outgoing values using a pair of filter functions.
java.lang.invoke.MethodHandles.insertCoordinates (VarHandle, int, Object) PREVIEW	19	Provides a target var handle with one or more <i>bound</i> coordinates in advance of the var handle's invocation.
java.lang.invoke.MethodHandles.Lookup.defineHiddenCle (byte[], boolean, MethodHandles.Lookup.ClassOption)	15	Creates a <i>hidden</i> class or interface from bytes, returning a Lookup on the newly created class or interface.
java.lang.invoke.MethodHandles.Lookup.defineHiddenCl. (byte[], Object, boolean, MethodHandles.Lookup.ClassOption)	16	Creates a <i>hidden</i> class or interface from bytes with associated class data, returning a Lookup on the newly created class or interface.
java.lang.invoke.MethodHandles.Lookup.ensureInitialize (Class <t>)</t>	15	Ensures that targetClass has been initialized.
java.lang.invoke.MethodHandles.Lookup.hasFullPrivilege	14	Returns true if this lookup has full privilege access, i.e.
java.lang.invoke.MethodHandles.Lookup.previousLookup	: 14	Reports a lookup class in another module that this lookup object was previously teleported from, or null.
java.lang.invoke.MethodHandles.memorySegmentViewVa (ValueLayout) <sup>PREVIEW</sup>	19	Creates a var handle object, which can be used to dereference a memory segment at a given byte offset, using the provided value layout.
java.lang.invoke.MethodHandles.permuteCoordinates (VarHandle, List <class<?>&gt;, int)PREVIEW</class<?>	19	Provides a var handle which adapts the coordinate values of the target var handle, by re-arranging them so that the new coordinates match the provided ones.
java.lang.invoke.MethodType.describeConstable()	12	Returns a nominal descriptor for this instance, if one can be constructed, or an empty <code>Optional</code> if one cannot

		be.
java.lang.invoke.MethodType.descriptorString()	12	Returns the descriptor string for this method type.
java.lang.invoke.StringConcatFactory.makeConcatWithTe (List <string>, List<class<?>&gt;)PREVIEW</class<?></string>	21	Simplified concatenation method to facilitate StringTemplate Concatenation.
java.lang.invoke.StringConcatFactory.makeConcatWithTe (List <string>, List<class<?>&gt;, int)<sup>PREVIEW</sup></class<?></string>	21	This method breaks up large concatenations into separate MethodHandles based on the number of slots required per MethodHandle.
java.lang.invoke.StringConcatFactory.makeConcatWithTe (List <string>, List<methodhandle>, int)<sup>PREVIEW</sup></methodhandle></string>	21	This method creates a MethodHandle expecting one input, the receiver of the supplied getters.
java.lang.invoke.VarHandle.describeConstable()	12	Return a nominal descriptor for this instance, if one can be constructed, or an empty Optional if one cannot be.
java.lang.invoke.VarHandle.hasInvokeExactBehavior()	16	Returns true if this VarHandle has <i>invoke-exact</i> behavior.
java.lang.invoke.VarHandle.withInvokeBehavior()	16	Returns a VarHandle, with access to the same variable(s) as this VarHandle, but whose invocation behavior of access mode methods is adjusted to <i>invoke behavior</i> .
java.lang.invoke.VarHandle.withInvokeExactBehavior()	16	Returns a VarHandle, with access to the same variable(s) as this VarHandle, but whose invocation behavior of access mode methods is adjusted to <i>invoke-exact behavior</i> .
java.lang.Long.compress(long, long)	19	Returns the value obtained by compressing the bits of the specified long value, i, in accordance with the specified bit mask.
java.lang.Long.describeConstable()	12	Returns an Optional containing the nominal descriptor for this instance, which is the instance itself.
java.lang.Long.expand(long, long)	19	Returns the value obtained by expanding the bits of the specified long value, i, in accordance with the specified bit mask.
java.lang.Long.resolveConstantDesc (MethodHandles.Lookup)	12	Resolves this instance as a ConstantDesc, the result of which is the instance itself.
java.lang.Math.absExact(int)	15	Returns the mathematical absolute value of an int value if it is exactly representable as an int, throwing ArithmeticException if the result overflows the positive int range.
java.lang.Math.absExact(long)	15	Returns the mathematical absolute value of an long value if it is exactly representable as an long, throwing ArithmeticException if the result overflows the positive long range.
java.lang.Math.ceilDiv(int, int)	18	Returns the smallest (closest to negative infinity) int value that is greater than or equal to the algebraic quotient.
java.lang.Math.ceilDiv(long, int)	18	Returns the smallest (closest to negative infinity) long value that is greater than or equal to the algebraic quotient.
java.lang.Math.ceilDiv(long, long)	18	Returns the smallest (closest to negative infinity) long value that is greater than or equal to the algebraic quotient.
java.lang.Math.ceilDivExact(int, int)	18	Returns the smallest (closest to negative infinity) int value that is greater than or equal to the algebraic quotient.
java.lang.Math.ceilDivExact(long, long)	18	Returns the smallest (closest to negative infinity) long value that is greater than or equal to the algebraic quotient.
java.lang.Math.ceilMod(int, int)	18	Returns the ceiling modulus of the int arguments.
java.lang.Math.ceilMod(long, int)	18	Returns the ceiling modulus of the long and int arguments.
java.lang.Math.ceilMod(long, long)	18	Returns the ceiling modulus of the long arguments.

java.lang.Math.clamp(double, double, double)	21	Clamps the value to fit between min and max.
java.lang.Math.clamp(float, float, float)	21	Clamps the value to fit between min and max.
java.lang.Math.clamp(long, int, int)	21	Clamps the value to fit between min and max.
java.lang.Math.clamp(long, long, long)	21	Clamps the value to fit between min and max.
java.lang.Math.divideExact(int, int)	18	Returns the quotient of the arguments, throwing an exception if the result overflows an int.
java.lang.Math.divideExact(long, long)	18	Returns the quotient of the arguments, throwing an exception if the result overflows a long.
java.lang.Math.floorDivExact(int, int)	18	Returns the largest (closest to positive infinity) int value that is less than or equal to the algebraic quotient.
java.lang.Math.floorDivExact(long, long)	18	Returns the largest (closest to positive infinity) long value that is less than or equal to the algebraic quotient.
java.lang.Math.unsignedMultiplyHigh(long, long)	18	Returns as a long the most significant 64 bits of the unsigned 128-bit product of two unsigned 64-bit factors.
java.lang.Module.isNativeAccessEnabled()PREVIEW	20	Returns true if this module can access <i>restricted</i> methods.
java.lang.module.ModuleDescriptor.accessFlags()	20	Returns the set of the module flags.
java.lang.module.ModuleDescriptor.Exports.accessFlags	20	Returns the set of the module export flags for this module descriptor.
java.lang.module.ModuleDescriptor.Opens.accessFlags()	20	Returns the set of the module opens flags.
java.lang.module.ModuleDescriptor.Requires.accessFlag	20	Returns the set of the module requires flags.
java.lang.ModuleLayer.Controller.enableNativeAccess (Module)PREVIEW	20	Enables native access for a module in the layer if the caller's module has native access.
java.lang.Process.errorReader()	17	Returns a BufferedReader connected to the standard error of the process.
java.lang.Process.errorReader(Charset)	17	Returns a BufferedReader connected to the standard error of this process using a Charset.
java.lang.Process.inputReader()	17	Returns a BufferedReader connected to the standard output of the process.
java.lang.Process.inputReader(Charset)	17	Returns a BufferedReader connected to the standard output of this process using a Charset.
java.lang.Process.outputWriter()	17	Returns a BufferedWriter connected to the normal input of the process using the native encoding.
java.lang.Process.outputWriter(Charset)	17	Returns a BufferedWriter connected to the normal input of the process using a Charset.
java.lang.ref.Reference.refersTo(T)	16	Tests if the referent of this reference object is obj.
java.lang.reflect.Executable.accessFlags()	20	Returns an unmodifiable set of the access flags for the executable represented by this object, possibly empty.
java.lang.reflect.Field.accessFlags()	20	Returns an unmodifiable set of the access flags for this field, possibly empty.
java.lang.reflect.lnvocationHandler.invokeDefault (Object, Method, Object)	16	Invokes the specified default method on the given proxy instance with the given parameters.
java.lang.reflect.Member.accessFlags()	20	Returns an unmodifiable set of the access flags for this member, possibly empty.
java.lang.reflect.Parameter.accessFlags()	20	Returns an unmodifiable set of the access flags for the parameter represented by this object, possibly empty.
java.lang.Short.describeConstable()	15	Returns an Optional containing the nominal descriptor for this instance.
java.lang.StrictMath.absExact(int)	15	Returns the mathematical absolute value of an int value if it is exactly representable as an int, throwing ArithmeticException if the result overflows the positive int range.

10/7/23, 3:25 PM	New API List (J	ava SE 21 & JDK 21)
java.lang.StrictMath.absExact(long)	15	Returns the mathematical absolute value of an long value if it is exactly representable as an long, throwing ArithmeticException if the result overflows the positive long range.
java.lang.StrictMath.ceilDiv(int, int)	18	Returns the smallest (closest to negative infinity) int value that is greater than or equal to the algebraic quotient.
java.lang.StrictMath.ceilDiv(long, int)	18	Returns the smallest (closest to negative infinity) long value that is greater than or equal to the algebraic quotient.
java.lang.StrictMath.ceilDiv(long, long)	18	Returns the smallest (closest to negative infinity) long value that is greater than or equal to the algebraic quotient.
java.lang.StrictMath.ceilDivExact(int, int)	18	Returns the smallest (closest to negative infinity) int value that is greater than or equal to the algebraic quotient.
java.lang.StrictMath.ceilDivExact(long, long)	18	Returns the smallest (closest to negative infinity) long value that is greater than or equal to the algebraic quotient.
java.lang.StrictMath.ceilMod(int, int)	18	Returns the ceiling modulus of the int arguments.
java.lang.StrictMath.ceilMod(long, int)	18	Returns the ceiling modulus of the long and int arguments.
java.lang.StrictMath.ceilMod(long, long)	18	Returns the ceiling modulus of the long arguments.
java.lang.StrictMath.clamp(double, double, double)	21	Clamps the value to fit between min and max.
java.lang.StrictMath.clamp(float, float, float)	21	Clamps the value to fit between min and max.
java.lang.StrictMath.clamp(long, int, int)	21	Clamps the value to fit between min and max.
java.lang.StrictMath.clamp(long, long, long)	21	Clamps the value to fit between min and max.
java.lang.StrictMath.decrementExact(int)	14	Returns the argument decremented by one, throwing an exception if the result overflows an int.
java.lang.StrictMath.decrementExact(long)	14	Returns the argument decremented by one, throwing an exception if the result overflows a long.
java.lang.StrictMath.divideExact(int, int)	18	Returns the quotient of the arguments, throwing an exception if the result overflows an int.
java.lang.StrictMath.divideExact(long, long)	18	Returns the quotient of the arguments, throwing an exception if the result overflows a long.
java.lang.StrictMath.floorDivExact(int, int)	18	Returns the largest (closest to positive infinity) int value that is less than or equal to the algebraic quotient.
java.lang.StrictMath.floorDivExact(long, long)	18	Returns the largest (closest to positive infinity) long value that is less than or equal to the algebraic quotient.
java.lang.StrictMath.incrementExact(int)	14	Returns the argument incremented by one, throwing an exception if the result overflows an int.
java.lang.StrictMath.incrementExact(long)	14	Returns the argument incremented by one, throwing an exception if the result overflows a long.
java.lang.StrictMath.negateExact(int)	14	Returns the negation of the argument, throwing an exception if the result overflows an int.
java.lang.StrictMath.negateExact(long)	14	Returns the negation of the argument, throwing an exception if the result overflows a long.
java.lang.StrictMath.unsignedMultiplyHigh(long, long)	18	Returns as a long the most significant 64 bits of the unsigned 128-bit product of two unsigned 64-bit factors.
java.lang.String.describeConstable()	12	Returns an Optional containing the nominal descriptor for this instance, which is the instance itself.
java.lang.String.formatted(Object)	15	Formats using this string as the format string, and the supplied arguments.
java.lang.String.indent(int)	12	Adjusts the indentation of each line of this string based on the value of n, and normalizes line termination characters.

1/7/23, 3:25 PM	New API List (.	Java SE 21 & JDK 21)
java.lang.String.indexOf(int, int, int)	21	Returns the index within this string of the first occurrence of the specified character, starting the search at beginIndex and stopping before endIndex.
java.lang.String.indexOf(String, int, int)	21	Returns the index of the first occurrence of the specified substring within the specified index range of this string.
java.lang.String.resolveConstantDesc (MethodHandles.Lookup)	12	Resolves this instance as a ConstantDesc, the result of which is the instance itself.
java.lang.String.splitWithDelimiters(String, int)	21	Splits this string around matches of the given regular expression and returns both the strings and the matching delimiters.
java.lang.String.stripIndent()	15	Returns a string whose value is this string, with incidental white space removed from the beginning and end of every line.
<pre>java.lang.String.transform(Function<? super String, ? extends R>)</pre>	12	This method allows the application of a function to this string.
java.lang.String.translateEscapes()	15	Returns a string whose value is this string, with escape sequences translated as if in a string literal.
java.lang.StringBuffer.repeat(int, int)	21	
java.lang.StringBuffer.repeat(CharSequence, int)	21	
java.lang.StringBuilder.repeat(int, int)	21	
java.lang.StringBuilder.repeat(CharSequence, int)	21	
java.lang.Thread.isVirtual()	21	Returns true if this thread is a virtual thread.
java.lang.Thread.join(Duration)	19	Waits for this thread to terminate for up to the given waiting duration.
java.lang.Thread.ofPlatform()	21	Returns a builder for creating a platform Thread or ThreadFactory that creates platform threads.
java.lang.Thread.ofVirtual()	21	Returns a builder for creating a virtual Thread or ThreadFactory that creates virtual threads.
java.lang.Thread.sleep(Duration)	19	Causes the currently executing thread to sleep (temporarily cease execution) for the specified duration, subject to the precision and accuracy of system timers and schedulers.
java.lang.Thread.startVirtualThread(Runnable)	21	Creates a virtual thread to execute a task and schedules it to execute.
java.lang.Thread.threadId()	19	Returns the identifier of this Thread.
java.math.BigInteger.parallelMultiply(BigInteger)	19	Returns a BigInteger whose value is (this * val).
java.net.DatagramSocket.joinGroup(SocketAddress, NetworkInterface)	17	Joins a multicast group.
java.net.DatagramSocket.leaveGroup(SocketAddress, NetworkInterface)	17	Leave a multicast group on a specified local interface.
java.net.http.HttpClient.awaitTermination(Duration)	21	Blocks until all operations have completed execution after a shutdown request, or the duration elapses, or the current thread is interrupted, whichever happens first.
java.net.http.HttpClient.Builder.localAddress (InetAddress)	19	Binds the socket to this local address when creating connections for sending requests.
java.net.http.HttpClient.close()	21	Initiates an orderly shutdown in which requests previously submitted to send or sendAsync are run to completion, but no new request will be accepted.
java.net.http.HttpClient.isTerminated()	21	Returns true if all operations have completed following a shutdown.
java.net.http.HttpClient.shutdown()	21	Initiates an orderly shutdown in which requests previously submitted with send or sendAsync are run to completion, but no new request will be accepted.
java.net.http.HttpClient.shutdownNow()	21	This method attempts to initiate an immediate shutdown.
java.net.http.HttpRequest.BodyPublishers.concat (HttpRequest.BodyPublisher)	16	Returns a BodyPublisher that publishes a request body consisting of the concatenation of the request bodies

published by a sequence of publishers.

		published by a sequence of publishers.
java.net.http.HttpRequest.Builder.HEAD()	18	Sets the request method of this builder to HEAD.
java.net.http.HttpRequest.newBuilder(HttpRequest, BiPredicate <string, string="">)</string,>	16	Creates a Builder whose initial state is copied from an existing HttpRequest.
java.net.SecureCacheResponse.getSSLSession()	12	Returns an Optional containing the SSLSession in use on the original connection that retrieved the network resource.
java.net.URL.of(URI, URLStreamHandler)	20	Creates a URL from a URI, as if by invoking uri.toURL(), but associating it with the given URLStreamHandler, if allowed.
java.nio.Buffer.slice(int, int)	13	Creates a new buffer whose content is a shared subsequence of this buffer's content.
java.nio.ByteBuffer.get(int, byte[])	13	Absolute bulk <i>get</i> method.
java.nio.ByteBuffer.get(int, byte[], int, int)	13	Absolute bulk <i>get</i> method.
java.nio.ByteBuffer.put(int, byte[])	13	Absolute bulk put method (optional operation).
java.nio.ByteBuffer.put(int, byte[], int, int)	13	Absolute bulk put method (optional operation).
java.nio.ByteBuffer.put(int, ByteBuffer, int, int)	16	Absolute bulk put method (optional operation).
java.nio.ByteBuffer.slice(int, int)	13	Creates a new byte buffer whose content is a shared subsequence of this buffer's content.
java.nio.channels.FileChannel.map (FileChannel.MapMode, long, long, Arena) <sup>PREVIEW</sup>	19	Maps a region of this channel's file into a new mapped memory segment, with the given offset, size and arena.
java.nio.channels.ServerSocketChannel.open (ProtocolFamily)	15	Opens a server-socket channel.
java.nio.channels.SocketChannel.open(ProtocolFamily)	15	Opens a socket channel.
java.nio.channels.spi.SelectorProvider.openServerSocke (ProtocolFamily)	1 15	Opens a server-socket channel.
java.nio.channels.spi.SelectorProvider.openSocketChann (ProtocolFamily)	1 15	Opens a socket channel.
	13	Opens a socket channel.  Absolute bulk <i>get</i> method.
(ProtocolFamily)		
(ProtocolFamily)  java.nio.CharBuffer.get(int, char[])	13	Absolute bulk <i>get</i> method.
<pre>(ProtocolFamily)  java.nio.CharBuffer.get(int, char[])  java.nio.CharBuffer.get(int, char[], int, int)</pre>	13 13	Absolute bulk <i>get</i> method.  Absolute bulk <i>get</i> method.
<pre>(ProtocolFamily)  java.nio.CharBuffer.get(int, char[])  java.nio.CharBuffer.get(int, char[], int, int)  java.nio.CharBuffer.isEmpty()</pre>	13 13 15	Absolute bulk <i>get</i> method.  Absolute bulk <i>get</i> method.  Returns true if this character buffer is empty.
<pre>(ProtocolFamily)  java.nio.CharBuffer.get(int, char[])  java.nio.CharBuffer.get(int, char[], int, int)  java.nio.CharBuffer.isEmpty()  java.nio.CharBuffer.put(int, char[])</pre>	13 13 15 13	Absolute bulk <i>get</i> method.  Absolute bulk <i>get</i> method.  Returns true if this character buffer is empty.  Absolute bulk <i>put</i> method (optional operation).
<pre>(ProtocolFamily)  java.nio.CharBuffer.get(int, char[])  java.nio.CharBuffer.get(int, char[], int, int)  java.nio.CharBuffer.isEmpty()  java.nio.CharBuffer.put(int, char[])  java.nio.CharBuffer.put(int, char[], int, int)</pre>	13 13 15 13	Absolute bulk <i>get</i> method.  Absolute bulk <i>get</i> method.  Returns true if this character buffer is empty.  Absolute bulk <i>put</i> method (optional operation).  Absolute bulk <i>put</i> method (optional operation).
<pre>(ProtocolFamily)  java.nio.CharBuffer.get(int, char[])  java.nio.CharBuffer.get(int, char[], int, int)  java.nio.CharBuffer.isEmpty()  java.nio.CharBuffer.put(int, char[])  java.nio.CharBuffer.put(int, char[], int, int)  java.nio.CharBuffer.put(int, CharBuffer, int, int)</pre>	13 13 15 13 13 16	Absolute bulk <i>get</i> method.  Absolute bulk <i>get</i> method.  Returns true if this character buffer is empty.  Absolute bulk <i>put</i> method (optional operation).  Absolute bulk <i>put</i> method (optional operation).  Absolute bulk <i>put</i> method (optional operation).  Creates a new char buffer whose content is a shared
<pre>(ProtocolFamily)  java.nio.CharBuffer.get(int, char[])  java.nio.CharBuffer.get(int, char[], int, int)  java.nio.CharBuffer.isEmpty()  java.nio.CharBuffer.put(int, char[])  java.nio.CharBuffer.put(int, char[], int, int)  java.nio.CharBuffer.put(int, CharBuffer, int, int)  java.nio.CharBuffer.slice(int, int)</pre>	13 13 15 13 13 16 13	Absolute bulk <i>get</i> method.  Absolute bulk <i>get</i> method.  Returns true if this character buffer is empty.  Absolute bulk <i>put</i> method (optional operation).  Absolute bulk <i>put</i> method (optional operation).  Absolute bulk <i>put</i> method (optional operation).  Creates a new char buffer whose content is a shared subsequence of this buffer's content.
<pre>(ProtocolFamily)  java.nio.CharBuffer.get(int, char[])  java.nio.CharBuffer.get(int, char[], int, int)  java.nio.CharBuffer.isEmpty()  java.nio.CharBuffer.put(int, char[])  java.nio.CharBuffer.put(int, char[], int, int)  java.nio.CharBuffer.put(int, CharBuffer, int, int)  java.nio.CharBuffer.slice(int, int)  java.nio.CharBuffer.slice(int, int)</pre>	13 13 15 13 13 13 13 14 18	Absolute bulk <i>get</i> method.  Returns true if this character buffer is empty.  Absolute bulk <i>put</i> method (optional operation).  Absolute bulk <i>put</i> method (optional operation).  Absolute bulk <i>put</i> method (optional operation).  Creates a new char buffer whose content is a shared subsequence of this buffer's content.  Returns a charset object for the named charset.
<pre>(ProtocolFamily)  java.nio.CharBuffer.get(int, char[])  java.nio.CharBuffer.get(int, char[], int, int)  java.nio.CharBuffer.isEmpty()  java.nio.CharBuffer.put(int, char[])  java.nio.CharBuffer.put(int, char[], int, int)  java.nio.CharBuffer.put(int, CharBuffer, int, int)  java.nio.CharBuffer.slice(int, int)  java.nio.CharBuffer.slice(int, int)</pre>	13 13 15 13 13 13 14 18 13	Absolute bulk <i>get</i> method.  Returns true if this character buffer is empty.  Absolute bulk <i>put</i> method (optional operation).  Absolute bulk <i>put</i> method (optional operation).  Absolute bulk <i>put</i> method (optional operation).  Creates a new char buffer whose content is a shared subsequence of this buffer's content.  Returns a charset object for the named charset.  Absolute bulk <i>get</i> method.
<pre>(ProtocolFamily)  java.nio.CharBuffer.get(int, char[])  java.nio.CharBuffer.get(int, char[], int, int)  java.nio.CharBuffer.isEmpty()  java.nio.CharBuffer.put(int, char[])  java.nio.CharBuffer.put(int, char[], int, int)  java.nio.CharBuffer.put(int, CharBuffer, int, int)  java.nio.CharBuffer.slice(int, int)  java.nio.CharBuffer.slice(int, int)  java.nio.CharSet.Charset.forName(String, Charset)  java.nio.DoubleBuffer.get(int, double[])  java.nio.DoubleBuffer.get(int, double[], int, int)</pre>	13 13 15 13 13 13 13 14 18 13 13 13	Absolute bulk <i>get</i> method.  Absolute bulk <i>get</i> method.  Returns true if this character buffer is empty.  Absolute bulk <i>put</i> method (optional operation).  Absolute bulk <i>put</i> method (optional operation).  Absolute bulk <i>put</i> method (optional operation).  Creates a new char buffer whose content is a shared subsequence of this buffer's content.  Returns a charset object for the named charset.  Absolute bulk <i>get</i> method.  Absolute bulk <i>get</i> method.
<pre>(ProtocolFamily)  java.nio.CharBuffer.get(int, char[])  java.nio.CharBuffer.get(int, char[], int, int)  java.nio.CharBuffer.isEmpty()  java.nio.CharBuffer.put(int, char[])  java.nio.CharBuffer.put(int, char[], int, int)  java.nio.CharBuffer.put(int, CharBuffer, int, int)  java.nio.CharBuffer.slice(int, int)  java.nio.CharBuffer.slice(int, int)  java.nio.Charset.Charset.forName(String, Charset)  java.nio.DoubleBuffer.get(int, double[])  java.nio.DoubleBuffer.get(int, double[])</pre>	13 13 15 13 13 13 14 18 13 13 13 13	Absolute bulk <i>get</i> method.  Returns true if this character buffer is empty.  Absolute bulk <i>put</i> method (optional operation).  Absolute bulk <i>put</i> method (optional operation).  Absolute bulk <i>put</i> method (optional operation).  Creates a new char buffer whose content is a shared subsequence of this buffer's content.  Returns a charset object for the named charset.  Absolute bulk <i>get</i> method.  Absolute bulk <i>get</i> method.  Absolute bulk <i>get</i> method.
<pre>(ProtocolFamily)  java.nio.CharBuffer.get(int, char[])  java.nio.CharBuffer.get(int, char[], int, int)  java.nio.CharBuffer.isEmpty()  java.nio.CharBuffer.put(int, char[])  java.nio.CharBuffer.put(int, char[], int, int)  java.nio.CharBuffer.put(int, CharBuffer, int, int)  java.nio.CharBuffer.slice(int, int)  java.nio.CharBuffer.slice(int, int)  java.nio.DoubleBuffer.get(int, double[])  java.nio.DoubleBuffer.get(int, double[])  java.nio.DoubleBuffer.put(int, double[])  java.nio.DoubleBuffer.put(int, double[])  java.nio.DoubleBuffer.put(int, double[], int, int)</pre>	13 13 15 13 13 13 14 18 13 13 13 13 13	Absolute bulk get method.  Returns true if this character buffer is empty.  Absolute bulk put method (optional operation).  Absolute bulk put method (optional operation).  Absolute bulk put method (optional operation).  Creates a new char buffer whose content is a shared subsequence of this buffer's content.  Returns a charset object for the named charset.  Absolute bulk get method.  Absolute bulk get method.  Absolute bulk put method (optional operation).  Absolute bulk put method (optional operation).
<pre>(ProtocolFamily)  java.nio.CharBuffer.get(int, char[])  java.nio.CharBuffer.get(int, char[], int, int)  java.nio.CharBuffer.isEmpty()  java.nio.CharBuffer.put(int, char[])  java.nio.CharBuffer.put(int, char[], int, int)  java.nio.CharBuffer.put(int, CharBuffer, int, int)  java.nio.CharBuffer.slice(int, int)  java.nio.CharBuffer.slice(int, int)  java.nio.DoubleBuffer.get(int, double[])  java.nio.DoubleBuffer.get(int, double[])  java.nio.DoubleBuffer.put(int, double[])  java.nio.DoubleBuffer.put(int, double[], int, int)  java.nio.DoubleBuffer.put(int, double[], int, int)</pre>	13 13 15 13 13 13 16 13 18 13 13 13 13 13 16	Absolute bulk get method.  Returns true if this character buffer is empty.  Absolute bulk put method (optional operation).  Absolute bulk put method (optional operation).  Absolute bulk put method (optional operation).  Creates a new char buffer whose content is a shared subsequence of this buffer's content.  Returns a charset object for the named charset.  Absolute bulk get method.  Absolute bulk get method.  Absolute bulk put method (optional operation).  Absolute bulk put method (optional operation).  Creates a new double buffer whose content is a shared

java.nio.filia.spl.filia.systems.newlilia.systems(Path), Mapo-Sciring, 7.5 (chast-coater)  java.nio.filia.spl.filia.systemProviderexists(Path), 20 Traits whither a filir criats.  java.nio.filia.spl.filia.systemProviderexists(Path), 20 Traits whither a filir criats.  java.nio.filia.spl.filia.systemProviderexists(Path), 20 Traits whither a filir criats.  java.nio.FleatSuffenget(int, float[)) 12 Absolute bulk get method.  java.nio.FleatSuffenget(int, float[), int, int) 13 Absolute bulk get method (optional operation), java.nio.FleatSuffenget(int, float[), int, int) 13 Absolute bulk get method (optional operation), java.nio.FleatSuffenget(int, float[), int, int) 13 Absolute bulk get method (optional operation), java.nio.FleatSuffer.put(int, float[), int, int) 13 Absolute bulk get method (optional operation), java.nio.FleatSuffer.silice(int, int) 13 Creates a new float buffer whose content is a shared sabsequence of bib suffers content.  java.nio.IntSuffer.get(int, int]) 13 Absolute bulk get method.  java.nio.IntSuffer.get(int, int], int, int) 12 Absolute bulk get method.  java.nio.intSuffer.get(int, int], int, int) 13 Absolute bulk get method.  java.nio.intSuffer.put(int, int], int, int) 13 Absolute bulk get method.  java.nio.intSuffer.put(int, int, int) 13 Absolute bulk get method.  java.nio.intSuffer.put(int, int, int) 14 Absolute bulk get method.  java.nio.intSuffer.put(int, int) 15 Absolute bulk get method.  java.nio.tongBuffer.put(int, int) 15 Absolute bulk get method.  java.nio.tongBuffer.put(int, int) 16 Absolute bulk get method.  java.nio.tongBuffer.put(int, int) 17 Absolute bulk get method.  java.nio.tongBuffer.put(int, int) 18 Absolute bulk get method.  java.nio.tongBuffer.put(int, int) 19 Absolute bulk get method.  java.nio.tongBuffer.put(int, short[], int, int) 19 Absolute bulk get method.  java.nio.tongBuffer.put(	<pre>java.nio.file.FileSystems.newFileSystem(Path, Map<string, ?="">)</string,></pre>	13	Constructs a new FileSystem to access the contents of a file as a file system.
LinkSpiton    Jova.nio.fi.gap ElisSystemProvider.readAttributes Exist   20     Path, Class-A., LinkOption    Java.nio.FloatBuffer.get(int, float[)   13   Absolute bulk per method.     Java.nio.FloatBuffer.get(int, float[)   13   Absolute bulk per method (optional operation).     Java.nio.FloatBuffer.put(int, float[)   13   Absolute bulk put method (optional operation).     Java.nio.FloatBuffer.put(int, float[)   13   Absolute bulk put method (optional operation).     Java.nio.FloatBuffer.put(int, floatBuffer int, int)   14   Absolute bulk put method (optional operation).     Java.nio.FloatBuffer.put(int, floatBuffer int, int)   15   Absolute bulk put method (optional operation).     Java.nio.IntBuffer.get(int, int])   13   Absolute bulk put method (optional operation).     Java.nio.IntBuffer.get(int, int])   13   Absolute bulk put method (optional operation).     Java.nio.IntBuffer.get(int, int])   14   Absolute bulk put method (optional operation).     Java.nio.IntBuffer.put(int, int])   15   Absolute bulk put method (optional operation).     Java.nio.IntBuffer.put(int, int])   15   Absolute bulk put method (optional operation).     Java.nio.IntBuffer.put(int, int)    15   Absolute bulk put method (optional operation).     Java.nio.LongBuffer.get(int, int)    15   Absolute bulk put method (optional operation).     Java.nio.LongBuffer.get(int, int)    15   Absolute bulk put method (optional operation).     Java.nio.LongBuffer.get(int, int)    16   Absolute bulk put method (optional operation).     Java.nio.LongBuffer.get(int, int)    13   Absolute bulk put method (optional operation).     Java.nio.LongBuffer.put(int, long[], int, int)   13   Absolute bulk put method (optional operation).     Java.nio.LongBuffer.put(int, long[], int, int)   13   Absolute bulk put method (optional operation).     Java.nio.SpotBuffer.put(int, long[], int, int)   13   Absolute bulk put method (optional operation).     Java.nio.SpotBuffer.get(int, short[])   14   Absolute bulk put method (optional operation).     Java.nio.Sh		13	
java.nio.FloatBuffer.get(int, float[)   13   Absolute bulk get method     java.nio.FloatBuffer.get(int, float[)   14   Absolute bulk get method     java.nio.FloatBuffer.get(int, float[)   15   Absolute bulk get method     java.nio.FloatBuffer.get(int, float[)   15   Absolute bulk get method     java.nio.IntBuffer.get(int, int[)   15   Absolute bulk get method     java.nio.IntBuffer.get(int, int[)   14   Absolute bulk get method     java.nio.IntBuffer.get(int, int[)   15   Absolute bulk get method     java.nio.IntBuffer.get(int, int[)   15   Absolute bulk get method     java.nio.IntBuffer.get(int, int[)   15   Absolute bulk get method     java.nio.IntBuffer.get(int, int[)   16   Absolute bulk get method     java.nio.IntBuffer.get(int, int[)   16   Absolute bulk get method     java.nio.LongBuffer.get(int, int[)   16   Absolute bulk get method     java.nio.LongBuffer.get(int, int[)   16   Absolute bulk get method     java.nio.LongBuffer.get(int, int[)   15   Absolute bulk get method     java.nio.LongBuffer.get(int, int[)   16   Absolute bulk get method     java.nio.LongBuffer.get(int, int[)   17   Absolute bulk get method     java.nio.LongBuffer.get(int, int[)   18   Absolute bulk get method     java.nio.LongBuffer.get(int, int[)   17   Absolute bulk get method     java.nio.LongBuffer.get(int, int[)   17   Absolute bulk get method     java.nio.LongBuffer.get(int, int[)   18   Absolute bulk get method     java.nio.LongBuffer.get(int, int[)   19   Absolute bulk get method     java.nio.ShortBuffer.get(int, int[)   18   Absolute bulk get method     java.nio.ShortBuffer.get(int, int[)   19   Absolute bulk get method     java.nio.ShortBuffer.get(int, int[)   19   Absolute bulk get method     java.nio.ShortBuffer.get(int, short[)   Int, int[)   19   Absolute bulk get method     java.nio.ShortBuffer.ge		20	Tests whether a file exists.
java.nio.FloatBuffer.get(int, float[), int, int)  java.nio.FloatBuffer.gut(int, floatBuffer, int, int)  java.nio.FloatBuffer.gut(int, int)  java.nio.FloatBuffer.gut(int, int)  java.nio.IntBuffer.gut(int, int[)  java.nio.IntBuffer.gut(int, int[)  java.nio.IntBuffer.gut(int, int[)  java.nio.IntBuffer.gut(int, int[)  java.nio.IntBuffer.gut(int, int]  java.nio.IntBuffer.gut(int, intBuffer, int, int)  java.nio.LongBuffer.gut(int, intg)  java.nio.ShortBuffer.gut(int, intg)  java.nio.ShortBuffer.gut(int, intg)  java.nio.ShortBuffer.gut(int, short(i))  java.		20	Reads a file's attributes as a bulk operation if it exists.
java.nio.FloatBuffer.put(int, float[), int, int)  java.nio.FloatBuffer.put(int, float[), int, int)  java.nio.FloatBuffer.put(int, float[), int, int)  java.nio.FloatBuffer.put(int, FloatBuffer, int, int)  java.nio.FloatBuffer.put(int, FloatBuffer, int, int)  java.nio.FloatBuffer.put(int, FloatBuffer, int, int)  java.nio.IntBuffer.get(int, int])  java.nio.IntBuffer.get(int, int[), int, int)  java.nio.IntBuffer.get(int, int], int, int)  java.nio.LongBuffer.get(int, int), int, int)  java.nio.LongBuffer.get(int, int), int, int)  java.nio.LongBuffer.get(int, int), int, int)  java.nio.LongBuffer.get(int, int), int, int)  java.nio.LongBuffer.get(int, int)  java.nio.ShortBuffer.get(int, int)  java.nio.ShortBuffer.get(int, int)  java.nio.ShortBuffer.get(int, int)  java.nio.ShortBuffer.get(int, int)  java.nio.ShortBuffer.get(int, int)  java.nio.ShortBuffer.get(int, short[)  java.nio.ShortBuffer.ge	java.nio.FloatBuffer.get(int, float[])	13	Absolute bulk <i>get</i> method.
java.nlo.FloatBuffer.put(int, float[], int, int)   13   Absolute bulk put method (optional operation).   java.nlo.FloatBuffer.put(int, FloatBuffer, int int)   16   Absolute bulk put method (optional operation).   java.nlo.IntBuffer.get(int, int)   13   Creates a new float. buffer whose content is a shared subsequence of this buffer's content.   java.nlo.IntBuffer.get(int, int[])   13   Absolute bulk get method.   java.nlo.IntBuffer.put(int, int[])   13   Absolute bulk get method (optional operation).   java.nlo.IntBuffer.put(int, int[], int, int)   13   Absolute bulk put method (optional operation).   java.nlo.IntBuffer.put(int, int[], int, int)   16   Absolute bulk put method (optional operation).   java.nlo.IntBuffer.get(int, int[])   13   Absolute bulk put method (optional operation).   java.nlo.IntBuffer.get(int, int[])   13   Absolute bulk get method.   java.nlo.LongBuffer.get(int, long[])   13   Absolute bulk get method.   java.nlo.LongBuffer.get(int, long[])   13   Absolute bulk get method.   java.nlo.LongBuffer.put(int, long[])   13   Absolute bulk put method (optional operation).   java.nlo.LongBuffer.put(int, long[])   13   Absolute bulk put method (optional operation).   java.nlo.LongBuffer.put(int, long[])   13   Absolute bulk put method (optional operation).   java.nlo.LongBuffer.put(int, long[])   13   Absolute bulk put method (optional operation).   java.nlo.LongBuffer.get(int, int)   13   Absolute bulk put method (optional operation).   java.nlo.LongBuffer.get(int, int)   13   Creates a new long buffer whose content is a shared subsequence of this buffer's content.   java.nlo.ShortBuffer.get(int, short[])   13   Absolute bulk get method.   java.nlo.ShortBuffer.get(int, short[])   13   Absolute bulk get method (optional operation).   java.nlo.ShortBuffer.get(int, short[])   13   Absolute bulk get method (optional operation).   java.nlo.ShortBuffer.get(int, short[])   14   Absolute bulk put method (optional operation).   java.nlo.ShortBuffer.get(int, short[])   15   Absolute bulk put method (opt	java.nio.FloatBuffer.get(int, float[], int, int)	13	Absolute bulk <i>get</i> method.
java.nio.FloatBuffer.put(int, FloatBuffer, int, int)  13 Absolute bulk put method (optional operation).  java.nio.IntBuffer.get(int, int])  13 Absolute bulk get method.  java.nio.IntBuffer.get(int, int], int, int)  13 Absolute bulk get method.  java.nio.IntBuffer.get(int, int], int, int)  13 Absolute bulk put method (optional operation).  java.nio.IntBuffer.put(int, int], int, int)  13 Absolute bulk put method (optional operation).  java.nio.IntBuffer.put(int, int], int, int)  13 Absolute bulk put method (optional operation).  java.nio.IntBuffer.get(int, int])  java.nio.IntBuffer.get(int, int])  13 Absolute bulk put method (optional operation).  java.nio.IntBuffer.get(int, int)  13 Creates a new int buffer whose content is a shared subsequence of this buffer's content.  java.nio.LongBuffer.get(int, long[])  java.nio.LongBuffer.get(int, long[])  java.nio.LongBuffer.get(int, long[])  java.nio.LongBuffer.get(int, long[])  java.nio.LongBuffer.put(int, long[])  java.nio.LongBuffer.put(int, long[])  java.nio.LongBuffer.get(int, int)  13 Absolute bulk put method (optional operation).  java.nio.LongBuffer.get(int, int)  13 Greates a new long buffer whose content is a shared subsequence of this buffer's content.  java.nio.MappedByteBuffer.force(int, int)  13 Greates a new long buffer whose content is a shared subsequence of this buffer's content.  java.nio.ShortBuffer.get(int, short[])  13 Absolute bulk put method (optional operation).  java.nio.ShortBuffer.get(int, short[])  13 Absolute bulk put method (optional operation).  java.nio.ShortBuffer.get(int, short[])  13 Absolute bulk put method (optional operation).  java.nio.ShortBuffer.get(int, short[])  13 Absolute bulk put method (optional operation).  java.nio.ShortBuffer.put(int, short[])  14 Absolute bulk put method (optional operation).  java.nio.ShortBuffer.get(int, short[])  15 Absolute bulk put method (optional operation).  java.nio.ShortBuffer.put(int, short[])  16 Absolute bulk put method (optional operation).  17 Absolute bulk put method (optional operation)	java.nio.FloatBuffer.put(int, float[])	13	Absolute bulk put method (optional operation).
java.nlo.floatBuffer.slice(int, int)  13	java.nio.FloatBuffer.put(int, float[], int, int)	13	Absolute bulk put method (optional operation).
subsequence of this buffer's content.  java.nio.intBuffer.get(int, int[)	java.nio.FloatBuffer.put(int, FloatBuffer, int, int)	16	Absolute bulk put method (optional operation).
java.nio.intBuffer.get(int, int(), int, int)  13 Absolute bulk get method.  java.nio.intBuffer.put(int, int())  13 Absolute bulk put method (optional operation).  java.nio.intBuffer.put(int, int())  13 Absolute bulk put method (optional operation).  java.nio.intBuffer.put(int, intBuffer, int, int)  13 Creates a new int buffer whose content is a shared subsequence of this buffer's content.  java.nio.longBuffer.get(int, long())  java.nio.longBuffer.get(int, long())  java.nio.longBuffer.put(int, long())  java.nio.longBuffer.get(int, int)  13 Creates a new long buffer whose content is a shared subsequence of this buffer's content.  java.nio.ShortBuffer.get(int, short())  java.nio.ShortBuffer.get(int, short())  java.nio.ShortBuffer.get(int, short())  java.nio.ShortBuffer.get(int, short())  java.nio.ShortBuffer.put(int, short())  java.nio.ShortBuffer.put(int, short())  java.nio.ShortBuffer.get(int, int)  13 Absolute bulk get method.  java.nio.ShortBuffer.get(int, int)  13 Absolute bulk get method (optional operation).  jav	java.nio.FloatBuffer.slice(int, int)	13	
java.nio.IntBuffer.put(int, int()) java.nio.IntBuffer.put(int, int(), int, int) java.nio.IntBuffer.put(int, int(), int, int) java.nio.IntBuffer.put(int, int(), int, int) java.nio.LongBuffer.get(int, int) java.nio.LongBuffer.get(int, long[]) java.nio.LongBuffer.put(int, long[]) java.nio.MappedByteBuffer.force(int, int)  java.nio.MappedByteBuffer.force(int, int)  java.nio.MappedByteBuffer.force(int, int)  java.nio.ShortBuffer.get(int, short[])  java.nio.ShortBuffe	java.nio.IntBuffer.get(int, int[])	13	Absolute bulk <i>get</i> method.
java.nio.IntBuffer.put(int, int(), int, int)  java.nio.IntBuffer.put(int, intBuffer, int, int)  java.nio.LongBuffer.put(int, intBuffer, int, int)  java.nio.LongBuffer.get(int, long[])  java.nio.LongBuffer.get(int, longBuffer, int, int)  java.nio.LongBuffer.get(int, int)  java.nio.MappedByteBuffer.force(int, int)  java.nio.MappedByteBuffer.force(int, int)  java.nio.ShortBuffer.get(int, short[])  java.text.DecimalFormatSymbols.getMonetaryGroupings  java.text.DecimalForm	java.nio.IntBuffer.get(int, int[], int, int)	13	Absolute bulk <i>get</i> method.
java.nio.intBuffer.put(int, intBuffer, int, int)   16   Absolute bulk pat method (optional operation).     java.nio.intBuffer.silce(int, int)   13   Creates a new int buffer whose content is a shared subsequence of this buffer's content.     java.nio.LongBuffer.get(int, long[])   13   Absolute bulk get method.     java.nio.LongBuffer.put(int, long[])   13   Absolute bulk get method (optional operation).     java.nio.LongBuffer.put(int, long[])   13   Absolute bulk put method (optional operation).     java.nio.LongBuffer.put(int, LongBuffer, int, int)   16   Absolute bulk put method (optional operation).     java.nio.LongBuffer.put(int, LongBuffer, int, int)   13   Creates a new long buffer whose content is a shared subsequence of this buffer's content.     java.nio.MappedByteBuffer.force(int, int)   13   Forces any changes made to a region of this buffer's content to be written to the storage device containing the mapped file.     java.nio.ShortBuffer.get(int, short[])   13   Absolute bulk get method.     java.nio.ShortBuffer.put(int, short[])   14   Absolute bulk get method.     java.nio.ShortBuffer.put(int, short[])   15   Absolute bulk get method.     java.nio.ShortBuffer.put(int, short[])   18   Retrieves the old method.     java.nio.ShortBuffer.get(int, int)   16   Absolute bulk put method.     java.nio.ShortBuffer.get(int, int)   18   Retrieves the attributes associated with the given alias.     java.security.KeyStore.getAttributes(String)   18   Retrieves the attributes associated with the given alias.     java.text.DecimalFormatSymbols.getMonetaryGroupin	java.nio.IntBuffer.put(int, int[])	13	Absolute bulk put method (optional operation).
java.nio.IntBuffer.slice(int, int)  13	java.nio.IntBuffer.put(int, int[], int, int)	13	Absolute bulk put method (optional operation).
subsequence of this buffer's content.  java.nio.LongBuffer.get(int, long[]) 13 Absolute bulk get method.  java.nio.LongBuffer.get(int, long[]) 13 Absolute bulk get method.  java.nio.LongBuffer.put(int, long[]) 13 Absolute bulk put method (optional operation).  java.nio.LongBuffer.put(int, long[]) 13 Absolute bulk put method (optional operation).  java.nio.LongBuffer.put(int, LongBuffer, int, int) 16 Absolute bulk put method (optional operation).  java.nio.LongBuffer.slice(int, int) 13 Creates a new long buffer whose content is a shared subsequence of this buffer's content.  java.nio.MappedByteBuffer.force(int, int) 13 Porces any changes made to a region of this buffer's content to be written to the storage device containing the mapped file.  java.nio.ShortBuffer.get(int, short[]) 13 Absolute bulk get method.  java.nio.ShortBuffer.put(int, short[]) 13 Absolute bulk get method.  java.nio.ShortBuffer.put(int, short[]) 13 Absolute bulk put method (optional operation).  java.nio.ShortBuffer.put(int, short[], int, int) 13 Absolute bulk put method (optional operation).  java.nio.ShortBuffer.put(int, shortBuffer, int, int) 16 Absolute bulk put method (optional operation).  java.nio.ShortBuffer.put(int, ShortBuffer, int, int) 13 Creates a new short buffer whose content is a shared subsequence of this buffer's content.  java.security.KeyStore.getAttributes(String) 18 Retrieves the attributes associated with the given alias.  java.text.DecimalFormatSymbols.getMonetaryGroupings 15 Gets the character used for grouping separator for currencies.  java.text.DecimalFormatSymbols.setMonetaryGroupings 15 Sets the character used for grouping separator for currencies.	java.nio.IntBuffer.put(int, IntBuffer, int, int)	16	Absolute bulk put method (optional operation).
java.nio.LongBuffer.get(int, long[], int, int)   13   Absolute bulk get method.     java.nio.LongBuffer.put(int, long[])   13   Absolute bulk put method (optional operation).     java.nio.LongBuffer.put(int, long[], int, int)   16   Absolute bulk put method (optional operation).     java.nio.LongBuffer.put(int, LongBuffer, int, int)   16   Absolute bulk put method (optional operation).     java.nio.LongBuffer.slice(int, int)   13   Creates a new long buffer whose content is a shared subsequence of this buffer's content.     java.nio.MappedByteBuffer.force(int, int)   13   Forces any changes made to a region of this buffer's content to be written to the storage device containing the mapped file.     java.nio.ShortBuffer.get(int, short[])   13   Absolute bulk get method.     java.nio.ShortBuffer.put(int, short[])   13   Absolute bulk get method.     java.nio.ShortBuffer.put(int, short[], int, int)   13   Absolute bulk put method (optional operation).     java.nio.ShortBuffer.put(int, short[], int, int)   13   Absolute bulk put method (optional operation).     java.nio.ShortBuffer.put(int, ShortBuffer, int, int)   16   Absolute bulk put method (optional operation).     java.nio.ShortBuffer.put(int, ShortBuffer, int, int)   16   Absolute bulk put method (optional operation).     java.nio.ShortBuffer.slice(int, int)   18   Retrieves the attributes associated with the given alias.     java.security.KeyStore.getAttributes(String)   18   Retrieves the attributes associated with the given alias.     java.text.DecimalFormatSymbols.getMonetaryGrouping5   15   Gets the character used for grouping separator for currencies.     java.text.DecimalFormatSymbols.setMonetaryGrouping5   15   Sets the character used for grouping separator for currencies.     java.text.NumberFormat.getCompactNumberInstance()   12   Returns a compact number format for the default	java.nio.IntBuffer.slice(int, int)	13	
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java.nio.LongBuffer.put(int, long[], int, int)  java.nio.LongBuffer.put(int, LongBuffer, int, int)  java.nio.LongBuffer.put(int, LongBuffer, int, int)  java.nio.LongBuffer.silce(int, int)  13	java.nio.LongBuffer.get(int, long[], int, int)	13	Absolute bulk <i>get</i> method.
java.nio.LongBuffer.put(int, LongBuffer, int, int)  java.nio.LongBuffer.put(int, LongBuffer, int, int)  java.nio.LongBuffer.slice(int, int)  3	java.nio.LongBuffer.put(int, long[])	13	Absolute bulk put method (optional operation).
java.nio.LongBuffer.slice(int, int)  13 Creates a new long buffer whose content is a shared subsequence of this buffer's content.  java.nio.MappedByteBuffer.force(int, int)  13 Forces any changes made to a region of this buffer's content to be written to the storage device containing the mapped file.  java.nio.ShortBuffer.get(int, short[])  13 Absolute bulk get method.  java.nio.ShortBuffer.put(int, short[])  13 Absolute bulk get method.  java.nio.ShortBuffer.put(int, short[])  13 Absolute bulk put method (optional operation).  java.nio.ShortBuffer.put(int, short[], int, int)  13 Absolute bulk put method (optional operation).  java.nio.ShortBuffer.put(int, ShortBuffer, int, int)  14 Absolute bulk put method (optional operation).  java.nio.ShortBuffer.slice(int, int)  15 Creates a new short buffer whose content is a shared subsequence of this buffer's content.  java.security.KeyStore.getAttributes(String)  18 Retrieves the attributes associated with the given alias.  java.security.KeyStoreSpi.engineGetAttributes(String)  18 Retrieves the attributes associated with the given alias.  java.text.DecimalFormatSymbols.getLocale()  19 Returns locale used to create this instance.  java.text.DecimalFormatSymbols.getMonetaryGroupingS  15 Gets the character used for grouping separator for currencies.  java.text.DecimalFormatSymbols.setMonetaryGroupingS  15 Sets the character used for grouping separator for currencies.	java.nio.LongBuffer.put(int, long[], int, int)	13	Absolute bulk put method (optional operation).
subsequence of this buffer's content.     java.nio.MappedByteBuffer.force(int, int)   13   Forces any changes made to a region of this buffer's content to be written to the storage device containing the mapped file.     java.nio.ShortBuffer.get(int, short[])   13   Absolute bulk get method.     java.nio.ShortBuffer.get(int, short[])   13   Absolute bulk get method.     java.nio.ShortBuffer.put(int, short[])   13   Absolute bulk put method (optional operation).     java.nio.ShortBuffer.put(int, short[])   13   Absolute bulk put method (optional operation).     java.nio.ShortBuffer.put(int, ShortBuffer, int, int)   16   Absolute bulk put method (optional operation).     java.nio.ShortBuffer.sulce(int, int)   13   Creates a new short buffer whose content is a shared subsequence of this buffer's content.     java.security.KeyStore.getAttributes(String)   18   Retrieves the attributes associated with the given alias.     java.security.KeyStoreSpi.engineGetAttributes(String)   18   Returns locale used to create this instance.     java.text.DecimalFormatSymbols.getMonetaryGroupingS   15   Gets the character used for grouping separator for currencies.     java.text.DecimalFormatSymbols.setMonetaryGroupingS   15   Sets the character used for grouping separator for currencies.     java.text.DecimalFormatSymbols.setMonetaryGroupingS   15   Sets the character used for grouping separator for currencies.     java.text.NumberFormat.getCompactNumberInstance()   12   Returns a compact number format for the default	java.nio.LongBuffer.put(int, LongBuffer, int, int)	16	Absolute bulk put method (optional operation).
content to be written to the storage device containing the mapped file.  Java.nio.ShortBuffer.get(int, short[]) 13 Absolute bulk get method.  Java.nio.ShortBuffer.get(int, short[]) 13 Absolute bulk get method.  Java.nio.ShortBuffer.put(int, short[]) 13 Absolute bulk put method (optional operation).  Java.nio.ShortBuffer.put(int, short[], int, int) 13 Absolute bulk put method (optional operation).  Java.nio.ShortBuffer.put(int, ShortBuffer, int, int) 16 Absolute bulk put method (optional operation).  Java.nio.ShortBuffer.slice(int, int) 13 Creates a new short buffer whose content is a shared subsequence of this buffer's content.  Java.security.KeyStore.getAttributes(String) 18 Retrieves the attributes associated with the given alias.  Java.security.KeyStoreSpi.engineGetAttributes(String) 19 Returns locale used to create this instance.  Java.text.DecimalFormatSymbols.getMonetaryGroupingS 15 Gets the character used for grouping separator for currencies.  Java.text.DecimalFormatSymbols.setMonetaryGroupingS 15 Sets the character used for grouping separator for currencies.  Java.text.DecimalFormatSymbols.getMonetaryGroupingS 15 Sets the character used for grouping separator for currencies.  Java.text.DecimalFormatSymbols.getMonetaryGroupingS 15 Sets the character used for grouping separator for currencies.	java.nio.LongBuffer.slice(int, int)	13	
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java.nio.ShortBuffer.put(int, short[])  java.nio.ShortBuffer.put(int, short[], int, int)  java.nio.ShortBuffer.put(int, ShortBuffer, int, int)  java.nio.ShortBuffer.put(int, ShortBuffer, int, int)  java.nio.ShortBuffer.put(int, ShortBuffer, int, int)  java.nio.ShortBuffer.slice(int, int)  13	java.nio.ShortBuffer.get(int, short[])	13	Absolute bulk <i>get</i> method.
java.nio.ShortBuffer.put(int, short[], int, int)  java.nio.ShortBuffer.put(int, ShortBuffer, int, int)  java.nio.ShortBuffer.put(int, ShortBuffer, int, int)  java.nio.ShortBuffer.slice(int, int)  13 Creates a new short buffer whose content is a shared subsequence of this buffer's content.  java.security.KeyStore.getAttributes(String)  18 Retrieves the attributes associated with the given alias.  java.security.KeyStoreSpi.engineGetAttributes(String)  18 Retrieves the attributes associated with the given alias.  java.text.DecimalFormatSymbols.getLocale()  19 Returns locale used to create this instance.  java.text.DecimalFormatSymbols.getMonetaryGroupingS  15 Gets the character used for grouping separator for currencies.  java.text.DecimalFormatSymbols.setMonetaryGroupingS  15 Sets the character used for grouping separator for currencies.  java.text.DecimalFormat.getCompactNumberInstance()  12 Returns a compact number format for the default	java.nio.ShortBuffer.get(int, short[], int, int)	13	Absolute bulk <i>get</i> method.
java.nio.ShortBuffer.put(int, ShortBuffer, int, int)  13	java.nio.ShortBuffer.put(int, short[])	13	Absolute bulk put method (optional operation).
java.nio.ShortBuffer.slice(int, int)  13 Creates a new short buffer whose content is a shared subsequence of this buffer's content.  java.security.KeyStore.getAttributes(String)  18 Retrieves the attributes associated with the given alias.  java.security.KeyStoreSpi.engineGetAttributes(String)  18 Retrieves the attributes associated with the given alias.  java.text.DecimalFormatSymbols.getLocale()  19 Returns locale used to create this instance.  java.text.DecimalFormatSymbols.getMonetaryGroupingS  15 Gets the character used for grouping separator for currencies.  java.text.DecimalFormatSymbols.setMonetaryGroupingS  15 Sets the character used for grouping separator for currencies.  java.text.NumberFormat.getCompactNumberInstance()  12 Returns a compact number format for the default	java.nio.ShortBuffer.put(int, short[], int, int)	13	Absolute bulk put method (optional operation).
subsequence of this buffer's content.  java.security.KeyStore.getAttributes(String)  18 Retrieves the attributes associated with the given alias.  java.security.KeyStoreSpi.engineGetAttributes(String)  18 Retrieves the attributes associated with the given alias.  java.text.DecimalFormatSymbols.getLocale()  19 Returns locale used to create this instance.  java.text.DecimalFormatSymbols.getMonetaryGroupingS  15 Gets the character used for grouping separator for currencies.  java.text.DecimalFormatSymbols.setMonetaryGroupingS  15 Sets the character used for grouping separator for currencies.  java.text.DecimalFormatSymbols.setMonetaryGroupingS  15 Returns a compact number format for the default	java.nio.ShortBuffer.put(int, ShortBuffer, int, int)	16	Absolute bulk put method (optional operation).
java.security.KeyStoreSpi.engineGetAttributes(String) 18 Retrieves the attributes associated with the given alias.  java.text.DecimalFormatSymbols.getLocale() 19 Returns locale used to create this instance.  java.text.DecimalFormatSymbols.getMonetaryGroupingS 15 Gets the character used for grouping separator for currencies.  java.text.DecimalFormatSymbols.setMonetaryGroupingS 15 Sets the character used for grouping separator for currencies.  java.text.NumberFormat.getCompactNumberInstance() 12 Returns a compact number format for the default	java.nio.ShortBuffer.slice(int, int)	13	
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java.text.DecimalFormatSymbols.getMonetaryGroupingS  java.text.DecimalFormatSymbols.setMonetaryGroupingS  java.text.DecimalFormatSymbols.setMonetaryGroupingS  Sets the character used for grouping separator for currencies.  Sets the character used for grouping separator for currencies.  java.text.NumberFormat.getCompactNumberInstance() 12  Returns a compact number format for the default	java.security.KeyStoreSpi.engineGetAttributes(String)	18	Retrieves the attributes associated with the given alias.
java.text.DecimalFormatSymbols.setMonetaryGroupingS 15  Sets the character used for grouping separator for currencies.  java.text.NumberFormat.getCompactNumberInstance() 12  Returns a compact number format for the default	java.text.DecimalFormatSymbols.getLocale()	19	Returns locale used to create this instance.
java.text.NumberFormat.getCompactNumberInstance() 12 Returns a compact number format for the default	java.text.DecimalFormatSymbols.getMonetaryGroupingS	15	
		15	
	java.text.NumberFormat.getCompactNumberInstance()	12	

java.text.NumberFormat.getCompactNumberInstance (Locale, NumberFormat.Style)	12	Returns a compact number format for the specified locale and formatStyle.
java.text.spi.NumberFormatProvider.getCompactNumber (Locale, NumberFormat.Style)	12	Returns a new NumberFormat instance which formats a number in its compact form for the specified locale and formatStyle.
java.time.chrono.Chronology.isIsoBased()	19	Checks if this chronology is ISO based.
java.time.chrono.lsoChronology.isIsoBased()	19	IsoChronology is an ISO based chronology, which supports fields in IsoFields, such as DAY_OF_QUARTER and QUARTER_OF_YEAR.
java.time.chrono.JapaneseChronology.isIsoBased()	19	JapaneseChronology is an ISO based chronology, which supports fields in IsoFields, such as DAY_OF_QUARTER and QUARTER_OF_YEAR.
java.time.chrono.MinguoChronology.isIsoBased()	19	MinguoChronology is an ISO based chronology, which supports fields in IsoFields, such as DAY_OF_QUARTER and QUARTER_OF_YEAR.
java. time. chrono. Thai Buddhist Chronology. is IsoBased ()	19	ThaiBuddhistChronology is an ISO based chronology, which supports fields in IsoFields, such as DAY_OF_QUARTER and QUARTER_OF_YEAR.
java.time.Duration.isPositive()	18	Checks if this duration is positive, excluding zero.
java.time.format.DateTimeFormatter.ofLocalizedPattern (String)	19	Creates a locale specific formatter derived from the requested template for the ISO chronology.
java.time.format.DateTimeFormatterBuilder.appendDayF (TextStyle)	16	Appends the day period text to the formatter.
java.time.format.DateTimeFormatterBuilder.appendLoca (String)	19	Appends a localized pattern to the formatter using the requested template.
java.time.format.DateTimeFormatterBuilder.getLocalized (String, Chronology, Locale)	19	Returns the formatting pattern for the requested template for a locale and chronology.
java.util.ArrayList.addFirst(E)	21	Adds an element as the first element of this collection (optional operation).
java.util.ArrayList.addLast(E)	21	Adds an element as the last element of this collection (optional operation).
java.util.ArrayList.getFirst()	21	Gets the first element of this collection.
java.util.ArrayList.getLast()	21	Gets the last element of this collection.
java.util.ArrayList.removeFirst()	21	Removes and returns the first element of this collection (optional operation).
java.util.ArrayList.removeLast()	21	Removes and returns the last element of this collection (optional operation).
java.util.Collections.newSequencedSetFromMap (SequencedMap <e, boolean="">)</e,>	21	Returns a sequenced set backed by the specified map.
java.util.Collections.shuffle(List , RandomGenerator)	21	Randomly permute the specified list using the specified source of randomness.
java.util.Collections.unmodifiableSequencedCollection (SequencedCollection extends T )	21	Returns an unmodifiable view of the specified SequencedCollection.
<pre>java.util.Collections.unmodifiableSequencedMap (SequencedMap<? extends K, ? extends V>)</pre>	21	Returns an unmodifiable view of the specified SequencedMap.
java.util.Collections.unmodifiableSequencedSet (SequencedSet extends T )	21	Returns an unmodifiable view of the specified SequencedSet.
java.util.concurrent.CompletionStage.exceptionallyAsynce(Function <throwable, ?="" extends="" t="">)</throwable,>	12	Returns a new CompletionStage that, when this stage completes exceptionally, is executed with this stage's exception as the argument to the supplied function, using this stage's default asynchronous execution facility.
java.util.concurrent.CompletionStage.exceptionallyAsyn(Function <throwable, ?="" extends="" t="">, Executor)</throwable,>	12	Returns a new CompletionStage that, when this stage completes exceptionally, is executed with this stage's

exception as the argument to the supplied function, using the supplied Executor. java.util.concurrent.CompletionStage.exceptionallyComr 12 Returns a new CompletionStage that, when this stage (Function<Throwable, ? extends completes exceptionally, is composed using the results CompletionStage<T>>) of the supplied function applied to this stage's exception. java.util.concurrent.CompletionStage.exceptionallyComr 12 Returns a new CompletionStage that, when this stage (Function<Throwable, ? extends completes exceptionally, is composed using the results CompletionStage<T>>) of the supplied function applied to this stage's exception, using this stage's default asynchronous execution facility. java.util.concurrent.CompletionStage.exceptionallyComr 12 Returns a new CompletionStage that, when this stage (Function<Throwable, ? extends completes exceptionally, is composed using the results CompletionStage<T>>, Executor) of the supplied function applied to this stage's exception, using the supplied Executor. java.util.concurrent.ConcurrentSkipListMap.putFirst(K, Throws UnsupportedOperationException. V) java.util.concurrent.ConcurrentSkipListMap.putLast(K, 21 Throws UnsupportedOperationException. java.util.concurrent.ConcurrentSkipListSet.addFirst(E) 21 Throws UnsupportedOperationException. java.util.concurrent.ConcurrentSkipListSet.addLast(E) 21 Throws UnsupportedOperationException. Adds an element as the first element of this collection java.util.concurrent.CopyOnWriteArrayList.addFirst(E) 21 (optional operation). java.util.concurrent.CopyOnWriteArrayList.addLast(E) 21 Adds an element as the last element of this collection (optional operation). java.util.concurrent.CopyOnWriteArrayList.getFirst() Gets the first element of this collection. 21 java.util.concurrent.CopyOnWriteArrayList.getLast() 21 Gets the last element of this collection. java.util.concurrent.CopyOnWriteArrayList.removeFirst() 21 Removes and returns the first element of this collection (optional operation). java.util.concurrent.CopyOnWriteArrayList.removeLast() 21 Removes and returns the last element of this collection (optional operation). java.util.concurrent.CopyOnWriteArrayList.reversed() 21 Returns a reverse-ordered view of this collection. java.util.concurrent.Executors.newThreadPerTaskExecute 21 Creates an Executor that starts a new Thread for each (ThreadFactory) task. java.util.concurrent.Executors.newVirtualThreadPerTask 21 Creates an Executor that starts a new virtual Thread for each task. java.util.concurrent.ExecutorService.close() 19 Initiates an orderly shutdown in which previously submitted tasks are executed, but no new tasks will be accepted. java.util.concurrent.ForkJoinPool.close() 19 Unless this is the ForkJoinPool.commonPool(), initiates an orderly shutdown in which previously submitted tasks are executed, but no new tasks will be accepted, and waits until all tasks have completed execution and the executor has terminated. java.util.concurrent.ForkJoinPool.externalSubmit 20 Submits the given task as if submitted from a non-(ForkJoinTask<T>) ForkJoinTask client. java.util.concurrent.ForkJoinPool.lazySubmit 19 Submits the given task without guaranteeing that it will (ForkJoinTask<T>) eventually execute in the absence of available active threads. java.util.concurrent.ForkJoinPool.setParallelism(int) 19 Changes the target parallelism of this pool, controlling the future creation, use, and termination of worker threads. java.util.concurrent.ForkJoinTask.adaptInterruptible 19 Returns a new ForkJoinTask that performs the call (Callable<? extends T>) method of the given Callable as its action, and returns its result upon ForkJoinTask.join(), translating any checked exceptions encountered into RuntimeException. java.util.concurrent.ForkJoinTask.quietlyJoin(long, 19 Tries to join this task, returning true if it completed TimeUnit) (possibly exceptionally) before the given timeout and

7/23, 3:25 PM	New API List (Ja	va SE 21 & JDK 21)
		the current thread has not been interrupted.
java.util.concurrent.ForkJoinTask.quietlyJoinUninterrupti (long, TimeUnit)	19	Tries to join this task, returning true if it completed (possibly exceptionally) before the given timeout.
java.util.concurrent.ForkJoinWorkerThread.getQueuedTa	20	Returns a (non-negative) estimate of the number of tasks in the thread's queue.
java.util.concurrent.Future.exceptionNow()	19	Returns the exception thrown by the task, without waiting.
java.util.concurrent.Future.resultNow()	19	Returns the computed result, without waiting.
java.util.concurrent.Future.state()	19	Returns the computation state.
java.util.concurrent.locks.LockSupport.setCurrentBlocke (Object)	14	Sets the object to be returned by invocations of getBlocker for the current thread.
java.util.Deque.reversed()	21	Returns a reverse-ordered view of this collection.
java.util.HashMap.newHashMap(int)	19	
		Creates a new, empty HashMap suitable for the expected number of mappings.
java.util.HashSet.newHashSet(int)	19	Creates a new, empty HashSet suitable for the expected number of elements.
java.util.LinkedHashMap.newLinkedHashMap(int)	19	Creates a new, empty, insertion-ordered LinkedHashMap suitable for the expected number of mappings.
java.util.LinkedHashMap.putFirst(K, V)	21	Inserts the given mapping into the map if it is not already present, or replaces the value of a mapping if it is already present (optional operation).
java.util.LinkedHashMap.putLast(K, V)	21	Inserts the given mapping into the map if it is not already present, or replaces the value of a mapping if it is already present (optional operation).
java.util.LinkedHashMap.reversed()	21	Returns a reverse-ordered view of this map.
java.util.LinkedHashMap.sequencedEntrySet()	21	Returns a SequencedSet view of this map's entrySet.
java.util.LinkedHashMap.sequencedKeySet()	21	Returns a SequencedSet view of this map's keySet.
java.util.LinkedHashMap.sequencedValues()	21	Returns a SequencedCollection view of this map's values collection.
java.util.LinkedHashSet.addFirst(E)	21	Adds an element as the first element of this collection (optional operation).
java.util.LinkedHashSet.addLast(E)	21	Adds an element as the last element of this collection (optional operation).
java.util.LinkedHashSet.getFirst()	21	Gets the first element of this collection.
java.util.LinkedHashSet.getLast()	21	Gets the last element of this collection.
java.util.LinkedHashSet.newLinkedHashSet(int)	19	Creates a new, empty LinkedHashSet suitable for the expected number of elements.
java.util.LinkedHashSet.removeFirst()	21	Removes and returns the first element of this collection (optional operation).
java.util.LinkedHashSet.removeLast()	21	Removes and returns the last element of this collection (optional operation).
java.util.LinkedHashSet.reversed()	21	Returns a reverse-ordered view of this collection.
java.util.LinkedList.reversed()	21	Returns a reverse-ordered view of this collection.
java.util.List.addFirst(E)	21	Adds an element as the first element of this collection (optional operation).
java.util.List.addLast(E)	21	Adds an element as the last element of this collection (optional operation).
java.util.List.getFirst()	21	Gets the first element of this collection.
java.util.List.getLast()	21	Gets the last element of this collection.
java.util.List.removeFirst()	21	Removes and returns the first element of this collection (optional operation).
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java.util.List.removeLast()	21	Removes and returns the last element of this collection (optional operation).
java.util.List.reversed()	21	Returns a reverse-ordered view of this collection.
java.util.Locale.availableLocales()	21	Returns a stream of installed locales.
java.util.Locale.caseFoldLanguageTag(String)	21	Returns a case folded IETF BCP 47 language tag.
java.util.Locale.of(String)	19	Obtains a locale from a language code.
java.util.Locale.of(String, String)	19	Obtains a locale from language and country.
java.util.Locale.of(String, String, String)	19	Obtains a locale from language, country and variant.
java.util.logging.LogRecord.getLongThreadID()	16	Get a thread identifier for the thread where message originated
java.util.logging.LogRecord.setLongThreadID(long)	16	Set an identifier for the thread where the message originated.
<pre>java.util.Map.Entry.copyOf(Map.Entry<? extends K, ? extends V>)</pre>	17	Returns a copy of the given Map.Entry.
java.util.NavigableMap.reversed()	21	Returns a reverse-ordered view of this map.
java.util.NavigableSet.removeFirst()	21	Removes and returns the first element of this collection (optional operation).
java.util.NavigableSet.removeLast()	21	Removes and returns the last element of this collection (optional operation).
java.util.NavigableSet.reversed()	21	Returns a reverse-ordered view of this collection.
java.util.Objects.checkFromIndexSize(long, long)	16	Checks if the sub-range from fromIndex (inclusive) to fromIndex + size (exclusive) is within the bounds of range from 0 (inclusive) to length (exclusive).
java.util.Objects.checkFromToIndex(long, long, long)	16	Checks if the sub-range from fromIndex (inclusive) to toIndex (exclusive) is within the bounds of range from 0 (inclusive) to length (exclusive).
java.util.Objects.checkIndex(long, long)	16	Checks if the index is within the bounds of the range from $\theta$ (inclusive) to length (exclusive).
java.util.Objects.toldentityString(Object)	19	Returns a string equivalent to the string returned by Object.toString if that method and hashCode are not overridden.
java.util.Random.from(RandomGenerator)	19	Returns an instance of Random that delegates method calls to the RandomGenerator argument.
java.util.regex.Matcher.hasMatch()	20	Returns whether this contains a valid match from a previous match or find operation.
java.util.regex.Matcher.namedGroups()	20	Returns an unmodifiable map from capturing group names to group numbers.
java.util.regex.MatchResult.end(String)	20	Returns the offset after the last character of the subsequence captured by the given named-capturing group during the previous match operation.
java.util.regex.MatchResult.group(String)	20	Returns the input subsequence captured by the given named-capturing group during the previous match operation.
java.util.regex.MatchResult.hasMatch()	20	Returns whether this contains a valid match from a previous match or find operation.
java.util.regex.MatchResult.namedGroups()	20	Returns an unmodifiable map from capturing group names to group numbers.
java.util.regex.MatchResult.start(String)	20	Returns the start index of the subsequence captured by the given named-capturing group during the previous match operation.
java.util.regex.Pattern.namedGroups()	20	Returns an unmodifiable map from capturing group names to group numbers.
java.util.regex.Pattern.splitWithDelimiters (CharSequence, int)	21	Splits the given input sequence around matches of this pattern and returns both the strings and the matching delimiters.

java.util.SortedMap.putFirst(K, V)	21	Throws UnsupportedOperationException.
java.util.SortedMap.putLast(K, V)	21	Throws UnsupportedOperationException.
java.util.SortedMap.reversed()	21	Returns a reverse-ordered view of this map.
java.util.SortedSet.addFirst(E)	21	Throws UnsupportedOperationException.
java.util.SortedSet.addLast(E)	21	Throws UnsupportedOperationException.
java.util.SortedSet.getFirst()	21	Gets the first element of this collection.
java.util.SortedSet.getLast()	21	Gets the last element of this collection.
java.util.SortedSet.removeFirst()	21	Removes and returns the first element of this collection (optional operation).
java.util.SortedSet.removeLast()	21	Removes and returns the last element of this collection (optional operation).
java.util.SortedSet.reversed()	21	Returns a reverse-ordered view of this collection.
java.util.spi.ToolProvider.description()	19	Returns a short description of the tool, or an empty Optional if no description is available.
java.util.SplittableRandom.split (RandomGenerator.SplittableGenerator)	17	Returns a new pseudorandom number generator, split off from this one, that implements the RandomGenerator and RandomGenerator. SplittableGenerator interfaces.
java.util.SplittableRandom.splits()	17	Returns an effectively unlimited stream of new pseudorandom number generators, each of which implements the RandomGenerator.SplittableGenerator interface.
java.util.SplittableRandom.splits(long)	17	Returns a stream producing the given streamSize number of new pseudorandom number generators, each of which implements the RandomGenerator.SplittableGenerator interface.
java.util.SplittableRandom.splits(long, RandomGenerator.SplittableGenerator)	17	Returns a stream producing the given streamSize number of new pseudorandom number generators, each of which implements the RandomGenerator.SplittableGenerator interface.
java.util.SplittableRandom.splits (RandomGenerator.SplittableGenerator)	17	Returns an effectively unlimited stream of new pseudorandom number generators, each of which implements the RandomGenerator.SplittableGenerator interface.
<pre>java.util.stream.Collectors.teeing(Collector<? super T, ?, R1>, Collector<? super T, ?, R2>, BiFunction<? super R1, ? super R2, R>)</pre>	12	Returns a Collector that is a composite of two downstream collectors.
java.util.stream.DoubleStream.mapMulti (DoubleStream.DoubleMapMultiConsumer)	16	Returns a stream consisting of the results of replacing each element of this stream with multiple elements, specifically zero or more elements.
java.util.stream.IntStream.mapMulti (IntStream.IntMapMultiConsumer)	16	Returns a stream consisting of the results of replacing each element of this stream with multiple elements, specifically zero or more elements.
java.util.stream.LongStream.mapMulti (LongStream.LongMapMultiConsumer)	16	Returns a stream consisting of the results of replacing each element of this stream with multiple elements, specifically zero or more elements.
<pre>java.util.stream.Stream.mapMulti(BiConsumer<? super T, ? super Consumer<R>&gt;)</pre>	16	Returns a stream consisting of the results of replacing each element of this stream with multiple elements, specifically zero or more elements.
java.util.stream.Stream.mapMultiToDouble (BiConsumer super T, ? super DoubleConsumer )	16	Returns a DoubleStream consisting of the results of replacing each element of this stream with multiple elements, specifically zero or more elements.
<pre>java.util.stream.Stream.mapMultiToInt(BiConsumer<? super T, ? super IntConsumer>)</pre>	16	Returns an IntStream consisting of the results of replacing each element of this stream with multiple elements, specifically zero or more elements.
<pre>java.util.stream.Stream.mapMultiToLong(BiConsumer<? super T, ? super LongConsumer>)</pre>	16	Returns a LongStream consisting of the results of replacing each element of this stream with multiple elements, specifically zero or more elements.
java.util.stream.Stream.toList()	16	Accumulates the elements of this stream into a List.

java.util.TreeMap.putFirst(K, V)	21	Throws UnsupportedOperationException.
java.util.TreeMap.putLast(K, V)	21	Throws UnsupportedOperationException.
java.util.TreeSet.addFirst(E)	21	Throws UnsupportedOperationException.
java.util.TreeSet.addLast(E)	21	Throws UnsupportedOperationException.
java.util.WeakHashMap.newWeakHashMap(int)	19	Creates a new, empty WeakHashMap suitable for the expected number of mappings.
java.util.zip.ZipInputStream.skipNBytes(long)	12	Skips over and discards exactly n bytes of data from this input stream for the current ZIP entry.
javax.annotation.processing.Messager.printError (CharSequence)	18	Prints an error.
javax.annotation.processing.Messager.printError (CharSequence, Element)	18	Prints an error at the location of the element.
javax.annotation.processing.Messager.printNote (CharSequence)	18	Prints a note.
javax.annotation.processing.Messager.printNote (CharSequence, Element)	18	Prints a note at the location of the element.
javax.annotation.processing.Messager.printWarning (CharSequence)	18	Prints a warning.
javax.annotation.processing.Messager.printWarning (CharSequence, Element)	18	Prints a warning at the location of the element.
javax.annotation.processing.ProcessingEnvironment.isPı	13	Returns true if <i>preview features</i> are enabled and false otherwise.
javax.lang.model.element.ElementKind.isDeclaredType()	19	Returns true if this is a kind of declared type, a class or an interface, and false otherwise.
javax.lang.model.element.ElementKind.isExecutable()	19	Returns true if this is a kind of executable: either METHOD or CONSTRUCTOR or STATIC_INIT or INSTANCE_INIT.
javax.lang.model.element.ElementKind.isInitializer()	19	Returns true if this is a kind of initializer: either STATIC_INIT or INSTANCE_INIT.
javax.lang.model.element.ElementKind.isVariable()	19	Returns true if this is a kind of variable: including ENUM_CONSTANT, FIELD, PARAMETER, LOCAL_VARIABLE, EXCEPTION_PARAMETER, RESOURCE_VARIABLE, and BINDING_VARIABLE.
javax.lang.model.element.ElementVisitor.visitRecordCon (RecordComponentElement, P)	16	Visits a record component element.
javax.lang.model.element.TypeElement.getPermittedSuk	17	Returns the permitted classes of this class or interface element in declaration order.
javax.lang.model.element.TypeElement.getRecordCompc	16	Returns the record components of this class or interface element in declaration order.
javax.lang.model.element.TypeElement.isUnnamed()PREVII	21	Returns true if this is an unnamed class and false otherwise.
javax.lang.model.element.VariableElement.isUnnamed()	21	Returns true if this is an unnamed variable and false otherwise.
javax.lang.model.SourceVersion.runtimeVersion()	18	Returns the least runtime version that supports this source version; otherwise null.
javax.lang.model.SourceVersion.valueOf (Runtime.Version)	18	Returns the latest source version that is usable under the runtime version argument.
javax.lang.model.util.AbstractElementVisitor6.visitRecor (RecordComponentElement, P)	14	Visits a record component element.
javax.lang.model.util.ElementFilter.recordComponentsIn (Iterable extends Element )	16	Returns a list of record components in elements.
	16	Returns a set of record components in elements.

javax.lang.model.util.ElementKindVisitor14.visitVariable (VariableElement, P)	14	Visits a BINDING_VARIABLE variable element.
javax.lang.model.util.ElementKindVisitor6.visitTypeAsRe (TypeElement, P)	16	Visits a RECORD type element.
javax.lang.model.util.ElementKindVisitor6.visitVariableA (VariableElement, P)	14	Visits a BINDING_VARIABLE variable element.
javax.lang.model.util.Elements.getFileObjectOf (Element)	18	Returns the file object for this element or null if there is no such file object.
javax.lang.model.util.Elements.getOutermostTypeElement(Element)	18	Returns the outermost type element an element is contained in if such a containing element exists; otherwise returns null.
javax.lang.model.util.Elements.isAutomaticModule (ModuleElement)	17	Returns true if the module element is an automatic module, false otherwise.
javax.lang.model.util.Elements.isCanonicalConstructor (ExecutableElement)	20	Returns true if the executable element can be determined to be a canonical constructor of a record, false otherwise.
javax.lang.model.util.Elements.isCompactConstructor (ExecutableElement)	20	Returns true if the executable element can be determined to be a compact constructor of a record, false otherwise.
javax.lang.model.util.Elements.recordComponentFor (ExecutableElement)	16	Returns the record component for the given accessor.
javax.net.ssl.HttpsURLConnection.getSSLSession()	12	Returns an Optional containing the SSLSession in use on this connection.
javax.net.ssl.SSLParameters.getNamedGroups()	20	Returns a prioritized array of key exchange named groups names that can be used over the SSL/TLS/DTLS protocols.
javax.net.ssl.SSLParameters.getSignatureSchemes()	19	Returns a prioritized array of signature scheme names that can be used over the SSL/TLS/DTLS protocols.
javax.net.ssl.SSLParameters.setNamedGroups(String[])	20	Sets the prioritized array of key exchange named groups names that can be used over the SSL/TLS/DTLS protocols.
javax.net.ssl.SSLParameters.setSignatureSchemes (String[])	19	Sets the prioritized array of signature scheme names that can be used over the SSL/TLS/DTLS protocols.
javax.security.auth.Subject.callAs(Subject, Callable <t>)</t>	18	Executes a Callable with subject as the current subject.
javax.security.auth.Subject.current()	18	Returns the current subject.
javax.swing.filechooser.FileSystemView.getChooserShort	12	Returns an array of files representing the values to show by default in the file chooser shortcuts panel.
javax.swing.filechooser.FileSystemView.getSystemIcon (File, int, int)	17	Returns an icon for a file, directory, or folder as it would be displayed in a system file browser for the requested size.
javax.tools.JavaFileManager.getFileForOutputForOriginal (JavaFileManager.Location, String, String, FileObject)	1 18	Returns a file object for output representing the specified relative name in the specified package in the given location.
javax.tools.JavaFileManager.getJavaFileForOutputForOrig (JavaFileManager.Location, String, JavaFileObject.Kind, FileObject)	18	Returns a file object for output representing the specified class of the specified kind in the given package-oriented location.
javax.tools.StandardJavaFileManager.getJavaFileObjects (Collection extends Path )	13	Returns file objects representing the given paths.
javax.xml.parsers.DocumentBuilderFactory.newDefaultN	13	Creates a new NamespaceAware instance of the DocumentBuilderFactory builtin system-default implementation.
javax.xml.parsers.DocumentBuilderFactory.newNSInstan	13	Creates a new NamespaceAware instance of a DocumentBuilderFactory.

javax.xml.parsers.DocumentBuilderFactory.newNSInstan (String, ClassLoader)	13	Creates a new NamespaceAware instance of a DocumentBuilderFactory from the class name.
javax.xml.parsers.SAXParserFactory.newDefaultNSInstar	13	Creates a new NamespaceAware instance of the SAXParserFactory builtin system-default implementation.
javax.xml.parsers.SAXParserFactory.newNSInstance()	13	Creates a new NamespaceAware instance of a SAXParserFactory.
javax.xml.parsers.SAXParserFactory.newNSInstance (String, ClassLoader)	13	Creates a new NamespaceAware instance of a SAXParserFactory from the class name.
javax.xml.xpath.XPathFactory.getProperty(String)	18	Returns the value of the specified property.
javax.xml.xpath.XPathFactory.setProperty(String, String)	18	Sets a property for this XPathFactory.
jdk.incubator.vector.ByteVector.compress (VectorMask <byte>)</byte>	19	Compresses the lane elements of this vector selecting lanes under the control of a specific mask.
jdk.incubator.vector.ByteVector.expand (VectorMask <byte>)</byte>	19	Expands the lane elements of this vector under the control of a specific mask.
jdk.incubator.vector.ByteVector.fromMemorySegment (VectorSpecies <byte>, MemorySegment, long, ByteOrder)<sup>PREVIEW</sup></byte>	19	Loads a vector from a memory segment $^{\mbox{\tiny PREVIEW}}$ starting at an offset into the memory segment.
jdk.incubator.vector.ByteVector.fromMemorySegment (VectorSpecies <byte>, MemorySegment, long, ByteOrder, VectorMask<byte>) PREVIEW</byte></byte>	19	Loads a vector from a memory segment starting at an offset into the memory segment and using a mask.
jdk.incubator.vector.ByteVector.intoMemorySegment (MemorySegment, long, ByteOrder)PREVIEW	19	Stores this vector into a memory segment starting at an offset using explicit byte order.
jdk.incubator.vector.ByteVector.intoMemorySegment (MemorySegment, long, ByteOrder, VectorMask <byte>)PREVIEW</byte>	19	Stores this vector into a memory segment <sup>PREVIEW</sup> starting at an offset using explicit byte order and a mask.
jdk.incubator.vector.DoubleVector.compress (VectorMask <double>)</double>	19	Compresses the lane elements of this vector selecting lanes under the control of a specific mask.
jdk.incubator.vector.DoubleVector.expand (VectorMask <double>)</double>	19	Expands the lane elements of this vector under the control of a specific mask.
jdk.incubator.vector.DoubleVector.fromMemorySegment (VectorSpecies <double>, MemorySegment, long, ByteOrder)PREVIEW</double>	19	Loads a vector from a memory segment starting at an offset into the memory segment.
jdk.incubator.vector.DoubleVector.fromMemorySegment (VectorSpecies <double>, MemorySegment, long, ByteOrder, VectorMask<double>)PREVIEW</double></double>	19	Loads a vector from a memory segment starting at an offset into the memory segment and using a mask.
jdk.incubator.vector.DoubleVector.intoMemorySegment (MemorySegment, long, ByteOrder)PREVIEW	19	Stores this vector into a memory segment <sup>PREVIEW</sup> starting at an offset using explicit byte order.
jdk.incubator.vector.DoubleVector.intoMemorySegment (MemorySegment, long, ByteOrder, VectorMask <double>)PREVIEW</double>	19	Stores this vector into a memory segment <sup>PREVIEW</sup> starting at an offset using explicit byte order and a mask.
jdk.incubator.vector.FloatVector.compress (VectorMask <float>)</float>	19	Compresses the lane elements of this vector selecting lanes under the control of a specific mask.
jdk.incubator.vector.FloatVector.expand (VectorMask <float>)</float>	19	Expands the lane elements of this vector under the control of a specific mask.
jdk.incubator.vector.FloatVector.fromMemorySegment (VectorSpecies <float>, MemorySegment, long, ByteOrder)<sup>PREVIEW</sup></float>	19	Loads a vector from a memory segment $^{\mbox{\tiny PREVIEW}}$ starting at an offset into the memory segment.
jdk.incubator.vector.FloatVector.fromMemorySegment (VectorSpecies <float>, MemorySegment, long, ByteOrder, VectorMask<float>)PREVIEW</float></float>	19	Loads a vector from a memory segment starting at an offset into the memory segment and using a mask.
jdk.incubator.vector.FloatVector.intoMemorySegment (MemorySegment, long, ByteOrder)PREVIEW	19	Stores this vector into a memory segment <sup>PREVIEW</sup> starting at an offset using explicit byte order.
jdk.incubator.vector.FloatVector.intoMemorySegment (MemorySegment, long, ByteOrder, VectorMask <float>)PREVIEW</float>	19	Stores this vector into a memory segment <sup>PREVIEW</sup> starting at an offset using explicit byte order and a mask.
jdk.incubator.vector.IntVector.compress (VectorMask <integer>)</integer>	19	Compresses the lane elements of this vector selecting lanes under the control of a specific mask.
jdk.incubator.vector.IntVector.expand (VectorMask <integer>)</integer>	19	Expands the lane elements of this vector under the control of a specific mask.

jdk.incubator.vector.IntVector.fromMemorySegment (VectorSpecies <integer>, MemorySegment, long, ByteOrder)PREVIEW</integer>	19	Loads a vector from a memory segment <sup>PREVIEW</sup> starting at an offset into the memory segment.
jdk.incubator.vector.IntVector.fromMemorySegment (VectorSpecies <integer>, MemorySegment, long, ByteOrder, VectorMask<integer>)  PREVIEW</integer></integer>	19	Loads a vector from a memory segment enterties starting at an offset into the memory segment and using a mask.
jdk.incubator.vector.IntVector.intoMemorySegment (MemorySegment, long, ByteOrder)PREVIEW	19	Stores this vector into a memory segment <sup>PREVIEW</sup> starting at an offset using explicit byte order.
jdk.incubator.vector.IntVector.intoMemorySegment (MemorySegment, long, ByteOrder, VectorMask <integer>) PREVIEW</integer>	19	Stores this vector into a memory segment <sup>PREVIEW</sup> starting at an offset using explicit byte order and a mask.
jdk.incubator.vector.LongVector.compress (VectorMask <long>)</long>	19	Compresses the lane elements of this vector selecting lanes under the control of a specific mask.
jdk.incubator.vector.LongVector.expand (VectorMask <long>)</long>	19	Expands the lane elements of this vector under the control of a specific mask.
jdk.incubator.vector.LongVector.fromMemorySegment (VectorSpecies <long>, MemorySegment, long, ByteOrder)PREVIEW</long>	19	Loads a vector from a memory segment starting at an offset into the memory segment.
jdk.incubator.vector.LongVector.fromMemorySegment (VectorSpecies <long>, MemorySegment, long, ByteOrder, VectorMask<long>)PREVIEW</long></long>	19	Loads a vector from a memory segment <sup>PREVIEW</sup> starting at an offset into the memory segment and using a mask.
jdk.incubator.vector.LongVector.intoMemorySegment (MemorySegment, long, ByteOrder)PREVIEW	19	Stores this vector into a memory segment <sup>PREVIEW</sup> starting at an offset using explicit byte order.
jdk.incubator.vector.LongVector.intoMemorySegment (MemorySegment, long, ByteOrder, VectorMask <long>)PREVIEW</long>	19	Stores this vector into a memory segment <sup>PREVIEW</sup> starting at an offset using explicit byte order and a mask.
jdk.incubator.vector.ShortVector.compress (VectorMask <short>)</short>	19	Compresses the lane elements of this vector selecting lanes under the control of a specific mask.
jdk.incubator.vector.ShortVector.expand (VectorMask <short>)</short>	19	Expands the lane elements of this vector under the control of a specific mask.
jdk.incubator.vector.ShortVector.fromMemorySegment (VectorSpecies <short>, MemorySegment, long, ByteOrder)PREVIEW</short>	19	Loads a vector from a memory segment <sup>PREVIEW</sup> starting at an offset into the memory segment.
jdk.incubator.vector.ShortVector.fromMemorySegment (VectorSpecies <short>, MemorySegment, long, ByteOrder, VectorMask<short>)PREVIEW</short></short>	19	Loads a vector from a memory segment <sup>PREVIEW</sup> starting at an offset into the memory segment and using a mask.
jdk.incubator.vector.ShortVector.intoMemorySegment (MemorySegment, long, ByteOrder)PREVIEW	19	Stores this vector into a memory segment <sup>PREVIEW</sup> starting at an offset using explicit byte order.
jdk.incubator.vector.ShortVector.intoMemorySegment (MemorySegment, long, ByteOrder, VectorMask <short>)PREVIEW</short>	19	Stores this vector into a memory segment <sup>PREVIEW</sup> starting at an offset using explicit byte order and a mask.
jdk.incubator.vector.Vector.compress(VectorMask <e>)</e>	19	Compresses the lane elements of this vector selecting lanes under the control of a specific mask.
jdk.incubator.vector.Vector.expand(VectorMask <e>)</e>	19	Expands the lane elements of this vector under the control of a specific mask.
jdk.incubator.vector.Vector.intoMemorySegment (MemorySegment, long, ByteOrder)PREVIEW	19	Stores this vector into a memory segment <sup>PREVIEW</sup> starting at an offset using explicit byte order.
jdk.incubator.vector.Vector.intoMemorySegment (MemorySegment, long, ByteOrder, VectorMask <e>)PREVIEW</e>	19	Stores this vector into a memory segment <sup>PREVIEW</sup> starting at an offset using explicit byte order and a mask.
jdk.incubator.vector.VectorMask.compress()	19	Compresses set lanes from this mask.
jdk.incubator.vector.VectorMask.indexInRange(long, long)	19	Removes lanes numbered N from this mask where the adjusted index N+offset, is not in the range $[0limit-1]$ .
jdk.incubator.vector.VectorSpecies.fromMemorySegment (MemorySegment, long, ByteOrder)PREVIEW	19	Loads a vector of this species from a memory segment <sup>PREVIEW</sup> starting at an offset into the memory segment.
jdk.incubator.vector.VectorSpecies.indexInRange(long, long)	19	Returns a mask of this species where only the lanes at index N such that the adjusted index N+offset is in the range [0limit-1] are set.
jdk.incubator.vector.VectorSpecies.loopBound(long)	19	Loop control function which returns the largest multiple of VLENGTH that is less than or equal to the given length value.

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jdk.javadoc.doclet.Reporter.getDiagnosticWriter()	17	Returns a writer that can be used to write diagnostic output, or null if no such writer is available.
jdk.javadoc.doclet.Reporter.getStandardWriter()	17	Returns a writer that can be used to write non-diagnostic output, or null if no such writer is available.
jdk.javadoc.doclet.Reporter.print(Diagnostic.Kind, DocTreePath, int, int, String)	18	Prints a diagnostic message related to a position within a range of characters in a tree node.
jdk.javadoc.doclet.Reporter.print(Diagnostic.Kind, FileObject, int, int, String)	17	Prints a diagnostic message related to a position within a range of characters in a file.
jdk.javadoc.doclet.StandardDoclet.getLocale()	17	Returns the locale for this doclet.
jdk.javadoc.doclet.StandardDoclet.getReporter()	17	Returns the reporter for this doclet.
jdk.jfr.consumer.EventStream.onMetadata (Consumer <metadataevent>)</metadataevent>	16	Registers an action to perform when new metadata arrives in the stream.
jdk.jfr.consumer.RecordedThread.isVirtual()	21	Returns true if this is a virtual Thread, false otherwise.
jdk.jfr.consumer.RecordingFile.write(Path, Predicate <recordedevent>)</recordedevent>	19	Filter out events and write them to a new file.
jdk.jfr.consumer.RecordingStream.dump(Path)	17	Writes recording data to a file.
jdk.jfr.consumer.RecordingStream.stop()	20	Stops the recording stream.
jdk.jshell.JShell.Builder.console(JShellConsole)	21	Sets the console for the running evalution.
jdk.jshell.SourceCodeAnalysis.highlights(String)	19	Returns a collection of Highlights which can be used to color the given snippet.
jdk.jshell.spi.ExecutionEnv.console()	21	Returns the JShellConsole that should be used by the execution engine, or null if none.
jdk.jshell.tool.JavaShellToolBuilder.interactiveTerminal (boolean)	17	Set to true to specify the inputs and outputs are connected to an interactive terminal that can interpret the ANSI escape codes.
jdk.management.jfr.RemoteRecordingStream.dump (Path)	17	Writes recording data to a file.
jdk.management.jfr.RemoteRecordingStream.stop()	20	Stops the recording stream.
org.xml.sax.ContentHandler.declaration(String, String, String)	14	Receives notification of the XML declaration.

# New Constructors

Constructor <b>♦</b>	Added in \$	Description
<pre>com.sun.net.httpserver.Headers(Map<string, List<string>&gt;)</string></string, </pre>	18	Creates a mutable Headers from the given headers with the same header names and values.
java.io.InvalidClassException(String, String, Throwable)	19	Report an InvalidClassException for the reason and cause specified.
java.io.InvalidClassException(String, Throwable)	19	Report an InvalidClassException for the reason and cause specified.
java.io.InvalidObjectException(String, Throwable)	19	Constructs an InvalidObjectException with the given reason and cause.
java.io.ObjectStreamException(String, Throwable)	19	Create an ObjectStreamException with the specified message and cause.
java.io.ObjectStreamException(Throwable)	19	Create an ObjectStreamException with the specified cause.
java.lang.IndexOutOfBoundsException(long)	16	Constructs a new IndexOutOfBoundsException class with an argument indicating the illegal index.
java.net.ServerSocket(SocketImpl)	12	Creates a server socket with a user-specified SocketImpl.
java.net.SocketException(String, Throwable)	19	Constructs a new SocketException with the specified detail message and cause.
java.net.SocketException(Throwable)	19	Constructs a new SocketException with the specified cause.

1125, 5.25 1 14	New All I Elst (3	ava SE 21 & JDK 21)
java.security.InvalidParameterException(String, Throwable)	20	Constructs an InvalidParameterException with the specified detail message and cause.
java.security.InvalidParameterException(Throwable)	20	Constructs an InvalidParameterException with the specified cause and a detail message of (cause==null ? null : cause.toString()) (which typically contains the class and detail message of cause).
java.text.CompactNumberFormat(String, DecimalFormatSymbols, String[], String)	14	Creates a CompactNumberFormat using the given decimal pattern, decimal format symbols, compact patterns, and plural rules.
java.util.concurrent.ForkJoinWorkerThread (ThreadGroup, ForkJoinPool, boolean)	19	Creates a ForkJoinWorkerThread operating in the given thread group and pool, and with the given policy for preserving ThreadLocals.
java.util.NoSuchElementException(String, Throwable)	15	Constructs a NoSuchElementException with the specified detail message and cause.
java.util.NoSuchElementException(Throwable)	15	Constructs a NoSuchElementException with the specified cause.
javax.net.ssl.SSLHandshakeException(String, Throwable)	19	Creates a SSLHandshakeException with the specified detail message and cause.
javax.net.ssl.SSLKeyException(String, Throwable)	19	Creates a SSLKeyException with the specified detail message and cause.
javax.net.ssl.SSLPeerUnverifiedException(String, Throwable)	19	Creates a SSLPeerUnverifiedException with the specified detail message and cause.
javax.net.ssl.SSLProtocolException(String, Throwable)	19	Creates a SSLProtocolException with the specified detail message and cause.

## **New Enum Constants**

New Enum Constants		
Enum Constant \$	Added in \$	Description
com.sun.source.doctree.DocTree.Kind.ESCAPE	21	Used for instances of EscapeTree representing some escaped documentation text.
com.sun.source.doctree.DocTree.Kind.SNIPPET	18	Used for instances of SnippetTree representing an @snippet tag.
com.sun.source.doctree.DocTree.Kind.SPEC	20	Used for instances of $SpecTree$ representing an $@spectag$ .
com.sun.source.doctree.DocTree.Kind.SYSTEM_PROPERT	12	Used for instances of SystemPropertyTree representing an @systemProperty tag.
com.sun.source.tree.Tree.Kind.ANY_PATTERNPREVIEW	21	Used for instances of BindingPatternTree.
com.sun.source.tree.Tree.Kind.BINDING_PATTERN	16	Used for instances of BindingPatternTree.
com.sun.source.tree.Tree.Kind.CONSTANT_CASE_LABEL	21	Used for instances of ConstantCaseLabelTree.
com.sun.source.tree.Tree.Kind.DECONSTRUCTION_PATTE	21	Used for instances of DeconstructionPatternTree.
com.sun.source.tree.Tree.Kind.DEFAULT_CASE_LABEL	21	Used for instances of DefaultCaseLabelTree.
com.sun.source.tree.Tree.Kind.PATTERN_CASE_LABEL	21	Used for instances of PatternCaseLabelTree.
com.sun.source.tree.Tree.Kind.RECORD	16	Used for instances of ClassTree representing records.
com.sun.source.tree.Tree.Kind.SWITCH_EXPRESSION	12	Used for instances of SwitchExpressionTree.
com.sun.source.tree.Tree.Kind.YIELD	13	Used for instances of YieldTree.
java.lang.annotation.ElementType.RECORD_COMPONENT	16	Record component
java.lang.Character.UnicodeScript.CHORASMIAN	15	Unicode script "Chorasmian".
java.lang.Character.UnicodeScript.CYPRO_MINOAN	19	Unicode script "Cypro Minoan".
java.lang.Character.UnicodeScript.DIVES_AKURU	15	Unicode script "Dives Akuru".
java.lang.Character.UnicodeScript.DOGRA	12	Unicode script "Dogra".
java.lang.Character.UnicodeScript.ELYMAIC	13	Unicode script "Elymaic".

java.lang.Character.UnicodeScript.GUNJALA_GONDI	12	Unicode script "Gunjala Gondi".
java.lang.Character.UnicodeScript.HANIFI_ROHINGYA	12	Unicode script "Hanifi Rohingya".
java.lang.Character.UnicodeScript.KAWI	20	Unicode script "Kawi".
java.lang.Character.UnicodeScript.KHITAN_SMALL_SCRIP	· 15	Unicode script "Khitan Small Script".
java.lang.Character.UnicodeScript.MAKASAR	12	Unicode script "Makasar".
java.lang.Character.UnicodeScript.MEDEFAIDRIN	12	Unicode script "Medefaidrin".
java.lang.Character.UnicodeScript.NAG_MUNDARI	20	Unicode script "Nag Mundari".
java.lang.Character.UnicodeScript.NANDINAGARI	13	Unicode script "Nandinagari".
java.lang.Character.UnicodeScript.NYIAKENG_PUACHUE_	l 13	Unicode script "Nyiakeng Puachue Hmong".
java.lang.Character.UnicodeScript.OLD_SOGDIAN	12	Unicode script "Old Sogdian".
java.lang.Character.UnicodeScript.OLD_UYGHUR	19	Unicode script "Old Uyghur".
java.lang.Character.UnicodeScript.SOGDIAN	12	Unicode script "Sogdian".
java.lang.Character.UnicodeScript.TANGSA	19	Unicode script "Tangsa".
java.lang.Character.UnicodeScript.TOTO	19	Unicode script "Toto".
java.lang.Character.UnicodeScript.VITHKUQI	19	Unicode script "Vithkuqi".
java.lang.Character.UnicodeScript.WANCHO	13	Unicode script "Wancho".
java.lang.Character.UnicodeScript.YEZIDI	15	Unicode script "Yezidi".
java.lang.reflect.ClassFileFormatVersion.RELEASE_21	21	The version introduced by the Java Platform, Standard Edition 21.
java.net.StandardProtocolFamily.UNIX	16	Unix domain (Local) interprocess communication.
javax.lang.model.element.ElementKind.BINDING_VARIAB	3 16	A binding variable in a pattern.
javax.lang.model.element.ElementKind.RECORD	16	A record class.
javax.lang.model.element.ElementKind.RECORD_COMPO	16	A record component of a record.
javax.lang.model.element.Modifier.NON_SEALED	17	The modifier non-sealed
javax.lang.model.element.Modifier.SEALED	17	The modifier sealed
javax.lang.model.SourceVersion.RELEASE_12	12	The version introduced by the Java Platform, Standard Edition 12.
javax.lang.model.SourceVersion.RELEASE_13	13	The version introduced by the Java Platform, Standard Edition 13.
javax.lang.model.SourceVersion.RELEASE_14	14	The version introduced by the Java Platform, Standard Edition 14.
javax.lang.model.SourceVersion.RELEASE_15	15	The version introduced by the Java Platform, Standard
		Edition 15.
javax.lang.model.SourceVersion.RELEASE_16	16	
javax.lang.model.SourceVersion.RELEASE_16 javax.lang.model.SourceVersion.RELEASE_17	16 17	Edition 15.  The version introduced by the Java Platform, Standard
		Edition 15.  The version introduced by the Java Platform, Standard Edition 16.  The version introduced by the Java Platform, Standard
javax.lang.model.SourceVersion.RELEASE_17	17	Edition 15.  The version introduced by the Java Platform, Standard Edition 16.  The version introduced by the Java Platform, Standard Edition 17.  The version introduced by the Java Platform, Standard
javax.lang.model.SourceVersion.RELEASE_17 javax.lang.model.SourceVersion.RELEASE_18	17	Edition 15.  The version introduced by the Java Platform, Standard Edition 16.  The version introduced by the Java Platform, Standard Edition 17.  The version introduced by the Java Platform, Standard Edition 18.  The version introduced by the Java Platform, Standard Edition 18.
javax.lang.model.SourceVersion.RELEASE_17  javax.lang.model.SourceVersion.RELEASE_18  javax.lang.model.SourceVersion.RELEASE_19	17 18 19	Edition 15.  The version introduced by the Java Platform, Standard Edition 16.  The version introduced by the Java Platform, Standard Edition 17.  The version introduced by the Java Platform, Standard Edition 18.  The version introduced by the Java Platform, Standard Edition 19.  The version introduced by the Java Platform, Standard Edition 19.

#### Report a bug or suggest an enhancement

For further API reference and developer documentation see the Java SE Documentation, which contains more detailed, developer-targeted descriptions with conceptual overviews, definitions of terms, workarounds, and working code examples. Other versions.

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