

JAVA.UTIL.RANDOM CLASS IN JAVA

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JAVA.UTIL.RANDOM CLASS IN JAVA

- ⊠ Random class is used to generate pseudo-random numbers in java.
- ⊠ This class provides various method calls to generate different random data types such as float, double, int.
- ⊠ The **Java Random class** is a part of the java.util package and contains inbuilt methods to generate random numbers.
- ⊠ The following import statement must be included in your code when using this class.

```
import java.util.Random;
```

JAVA.UTIL.RANDOM CLASS IN JAVA

Constructor:

- ✧ **Random():** Creates a new random number generator.

METHODS OF RANDOM CLASS:

- ✧ **java.util.Random.doubles():** Returns an effectively unlimited stream of pseudo random double values, each between zero (inclusive) and one (exclusive)

Syntax:

```
public DoubleStream doubles()
```

- ✧ **Returns:** a stream of pseudo random double values

JAVA.UTIL.RANDOM.INTS():

✘ **java.util.Random.ints():**

Returns an effectively unlimited stream of pseudo random int values

Syntax:

```
public IntStream ints()
```

Returns: a stream of pseudo random int values

JAVA.UTIL.RANDOM.LONGS():

☒ **java.util.Random.longs():**

Returns an effectively unlimited stream of pseudo random long values

Syntax:

☒ **public LongStream longs()**

Returns: a stream of pseudorandom long values

JAVA.UTIL.RANDOM.NEXT(INT BITS)

⌘ **next(int bits): java.util.Random.next(int bits)**

Generates the next pseudo random number

Syntax:

⌘ **protected int next(int bits) Parameters:**

⌘ bits - random bits

⌘ **Returns:** the next pseudo random value from this random number generator's sequence

JAVA.UTIL.RANDOM.NEXTBOOLEAN():

✧ **java.util.Random.nextBoolean():**

Returns the next pseudo random, uniformly distributed boolean value from this random number generator's sequence

Syntax:

✧ **public boolean nextBoolean()**

Returns: the next pseudorandom, uniformly distributed boolean value from this random number generator's sequence

JAVA.UTIL.RANDOM.NEXTBYTES(BYTE[] BYTES):

- ✘ **java.util.Random.nextBytes(byte[] bytes):**
Generates random bytes and places them into a user-supplied byte array
Syntax:
- ✘ **public void nextBytes(byte[] bytes)**

JAVA.UTIL.RANDOM.NEXTDDOUBLE():

- ✘ **java.util.Random.nextDouble():**
- ✘ Returns the next pseudo random, uniformly distributed double value between 0.0 and 1.0 from this random number generator's sequence

Syntax:

- ✘ **public double nextDouble()**
- ✘ **Returns:** the next pseudo random, uniformly distributed double value between 0.0 and 1.0 from this random number generator's sequence

JAVA.UTIL.RANDOM.NEXTFLOAT():

- ✘ **java.util.Random.nextFloat():**
- ✘ Returns the next pseudo random, uniformly distributed float value between 0.0 and 1.0 from this random number generator's sequence

Syntax:

- ✘ **public float nextFloat()**
- ✘ **Returns:** the next pseudorandom, uniformly distributed float value between 0.0 and 1.0 from this random number generator's sequence

JAVA.UTIL.RANDOM.NEXTINT():

✧ java.util.Random.nextInt():

Returns the next pseudorandom, uniformly distributed int value from this random number generator's sequence

Syntax:

✧ **public int nextInt()**

Returns: the next pseudorandom, uniformly distributed int value from this random number generator's sequence

JAVA.UTIL.RANDOM.NEXTINT(INT BOUND):

☒ **java.util.Random.nextInt(int bound):**

Returns a pseudo random, uniformly distributed int value between 0 (inclusive) and the specified value (exclusive), drawn from this random number generator's sequence

Syntax:

- ☒ **public int nextInt(int bound) Parameters:**
bound - the upper bound (exclusive). Must be positive.

JAVA.UTIL.RANDOM.NEXTLONG():

- ✧ **java.util.Random.nextLong():**
- ✧ Returns the next pseudorandom, uniformly distributed long value from this random number generator's sequence
Syntax: public long nextLong()
- ✧ **Returns:** the next pseudorandom, uniformly distributed long value from this random number generator's sequence



Thank you!

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