# Exam ID1018 19 March 2014 — supplement

ID1018

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## The Java standard library

### A small part of the standard library

Below is a brief description of certain classes and interfaces in the Java standard library. The description is not to be seen as complete; it may contain what is not needed and omit that which is needed for the exam.

### The class java.lang.Math

A description of some of the methods in the class `java.lang.Math`:

`public static double cos (double angleRadians)`

Returns the cosine of an angle given in radians (`angleRadians`).

`public static double acos (double cosValue)`

Returns the angle (in radians) of the given cosine (`cosValue`).

`public static double toDegrees (double angleRadians)`

Transforms between angular measurements: accepts radians and returns degrees.

`public static double toRadians (double angleDegrees)`

Transforms between angular measurements: accepts degrees and returns radians.

## java.awt.Point

A description of some constructors and methods in the class `java.awt.Point`:

`public Point ()`

Creates a point where both coordinates are 0.

`public Point (int x, int y)`

Creates a point with the given integer coordinates.

`public String toString ()`

Returns the string representation of the point. The returned string is on the form: `java.awt.Point[x=3,y=4]`.

## The interface java.lang.CharSequence

Among the implementing classes are `java.lang.String`, `java.lang.StringBuilder`, and `java.lang.StringBuffer`.

Certain methods in the `java.lang.CharSequence` interface:

`char charAt(int index)`

Returns the character in the character sequence located at the given index.

`int length()`

Returns the length of the character sequence.

`CharSequence subSequence (int start, int end)`

Returns a new character sequence which is a subsequence of `this` character sequence. The new character sequence starts with the character at index `start`, and ends with the character at index `end - 1`.