

CE303 – Some Sample Progress Test Questions

All questions are about programming as taught in CE303.
The default programming language is Java.

Question 1

- Overloaded methods must have the same method name and the same parameter lists.

[A] True
[B] False

Question 2

- Consider the following Java program. What will be the output?

```
List<Integer> myList = Arrays.asList(-2, 4, -1);  
Collections.sort(myList, (x, y) -> Math.abs(x) - Math.abs(y));  
System.out.println(myList);
```

[A] [-2, -1, 4]
[B] [-1, -2, 4]

Question 3

- A process can have several threads.

[A] True
[B] False

Question 4

- Method **Thread.start()** waits for the started thread to terminate.

[A] True
[B] False

Question 5

- The Java class **Socket** has a method **accept()** that blocks until a connection is made.

[A] True
[B] False

Question 6

- In RMI, methods in remote interfaces can throw a **RemoteException**.

[A] True
[B] False

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Question 7

- **IOException** is a checked exception.

[A] True
[B] False

Question 8

- JAX-RS uses the annotation **@QueryParam** to map HTTP path elements to method parameters.

[A] True
[B] False

Question 9

- **ArrayBlockingQueue** objects have a fixed capacity.

[A] True
[B] False

Question 10

- Class **java.util.Collections** has a method **fill(list,object)** which replaces all of the elements of a list with a specified object. What is the type of this method?

[A] **static <T> void fill(List<? super T> list, T obj)**
[B] **static <T> void fill(List<? extends T> list, T obj)**

Question 11

- A list function is "tail-recursive" if all recursive arguments are sub-lists of the list.

[A] True
[B] False

Question 12

- Memoisation is optimisation technique that stores the results of certain function calls and returns the cached result when the same function arguments occur again.

[A] True
[B] False