



Technical Test - Java

daniel.atalaya.nina@gmail.com [Cambiar de cuenta](#)

Borrador guardado

*Obligatorio

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All questions assume Java 8

What does the following method do? *

```
public static void foo(char[] arr, String s) {
    if (arr.length < s.length())
        return;

    for (int i = 0; i < s.length(); i++)
        arr[i] = s.charAt(s.length() - i - 1);
}
```

- ☐ It copies characters from the array to the String in reverse order
- ☐ It creates a new array that contains the same characters as the String
- ☐ It determines if the array contains the same characters as the String
- ☒ If there are enough slots in the array, it copies characters one by one in reverse order from the String to the array

You're rewriting a method inherited from a parent class. What's the most appropriate annotation to use in this case? *

- ☐ @Test
- ☐ @Deprecated
- ☐ @Overload
- ☐ @Rewrite
- ☒ @Override

What would be the output of the following program? *

```
public class Test {
    public static void badMethod() {
        throw new RuntimeException();
    }

    public static void main(String[] args) {
        try {
            badMethod();
            System.out.print("A");
        } catch (RuntimeException ex) {
            System.out.print("B");
        } catch (Exception ex1) {
            System.out.print("C");
        } finally {
            System.out.print("D");
        }
        System.out.print("E");
    }
}
```

- ☐ BCD
- ☒ BDE
- ☐ BD
- ☐ BCDE

What's the name of the main configuration file used by Maven? *

In case you're not familiar with it, Apache Maven is one of the most prominent dependency management and build tools available in the Java ecosystem

- ☐ WEB-INF
- ☐ build.xml
- ☐ build.gradle
- ☐ config.json
- ☒ pom.xml

You have compiled a Java class called Test. Now, you run it from your shell with the flag "-Xmx4g". What does that mean? *

\$ java -Xmx4g Test

- ☐ Set initial heap size to 4 gigabytes
- ☐ Set initial thread stack size to 4 gigabytes
- ☒ Set maximum heap size to 4 gigabytes
- ☐ Set maximum thread stack size to 4 gigabytes

Which of the following acronyms is unrelated to Java? *

- ☐ JDK
- ☐ JRE
- ☐ JMX
- ☒ JFS
- ☐ JVM

You run a Java program and get this. What's the most likely explanation for this problem? *

```
Caused by: java.lang.StringIndexOutOfBoundsException: String index out of range: 4
    at java.lang.String.substring(Unknown Source)
    at java.lang.String.subSequence(Unknown Source)
    at com.example.tes.Import.ImportRoute.readFile(ImportRoute.java:950)
    at com.example.tes.Import.ImportRoute.checkFile(ImportRoute.java:877)
    at com.example.tes.Import.ImportRoute.uploadSucceeded(ImportRoute.java:1099)
    at sun.reflect.NativeMethodAccessorImpl.invoke(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)
    at java.lang.reflect.Method.invoke(Unknown Source)
    ... 25 more
```

- ☐ You're trying to allocate a String that's bigger than the available heap memory size
- ☒ You're trying to access a particular character of a String object, and the index you're using is greater than or equal to this object's length()
- ☐ You're trying to extend a static String object past its allocated size
- ☐ You're trying to execute code coming from an unknown source, hence the bytecode interpreter cannot find it

You have a small stand-alone Java class on a file called "Fibonacci.java". Using command line tools only, how would you compile and run this class? *

You can assume you are using a UNIX-like shell

- ☐ \$ javac Fibonacci && java Fibonacci.class
- ☐ \$ javac Fibonacci.java && ./Fibonacci.class
- ☐ \$ java Fibonacci
- ☒ \$ javac Fibonacci.java && java Fibonacci
- ☐ \$ java Fibonacci.java && javac Fibonacci

What is the output of the following Java program? *

```
import java.util.*;

public class Test {
    public static void main(String[] args) {
        List<String> wordlist = Arrays.asList(
            "to", "be", "or", "not", "to", "be", "that"
        );
        Set wordset = new HashSet<String>(wordlist);
        System.out.println(wordset.size());
    }
}
```

- ☐ 6
- ☐ 7
- ☒ 5
- ☐ Test.java:5: error: cannot find symbol "List"

What kind of HTTP request does this servlet expect in order to send a 200 OK response containing "Hello World!" to the client? *

```
import java.io.IOException;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/hello")
public class ServletWithAnnotations extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.getWriter().println("Hello World!");
    }
}
```

- ☐ A HEAD request to the "/hello" path
- ☒ A GET request to the "/hello" path
- ☐ A GET request to the "/" path
- ☐ A POST request to the "/hello" path
- ☐ A POST request to the "/" path

Which of the following statements are true about Java interfaces and inheritance? (Pick two) *

- ☒ All methods declared in an interface must be defined in the class implementing that interface, unless it's an abstract class
- ☐ Classes may inherit from multiple classes using the "extends" keyword
- ☐ Classes can only implement one interface at most
- ☒ Interfaces cannot be instantiated

Which of the following is "NOT" a Java built-in exception? *

- ☐ ArrayIndexOutOfBoundsException
- ☐ ClassNotFoundException
- ☐ NullPointerException
- ☒ InvalidBytecodeException

You would like to build a map called "wordmap" containing some words and their corresponding lengths. Select all valid answers to populate that map (pick three): *

```
import java.util.*;

public class Test {
    public static void main(String[] args) {
        List<String> wordlist = Arrays.asList(
            "to", "be", "or", "not", "to", "be", "that"
        );
        // ...

        System.out.println(wordmap);
    }
}
```

- ☐ Option 6 - <https://drive.google.com/open?id=13wbC7V9SSDphurRU-Kb1lcWK3-dsSKM>
- ☒ Option 3 - <https://drive.google.com/open?id=1mqxUgDJ0KHEOtPjNwrl7r1Y1b8MCyW>
- ☐ Option 2 - https://drive.google.com/open?id=1B_KGTGG9ZcaUVdxW10rjsxFjNxbY9w
- ☒ Option 4 - <https://drive.google.com/open?id=1liltxmYduNGg-zCKeMk03P-CxN2uhRg>
- ☐ Option 5 - <https://drive.google.com/open?id=1sRfL86RgCWlkhpl4Jcno93BUZeYf2if>
- ☒ Option 1 - https://drive.google.com/file/d/1djo0XWNy7_KN3bXCMYHdCC4XzdV139p0