

1Z0-819^{Q&As}

Java SE 11 Developer

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QUESTION 1

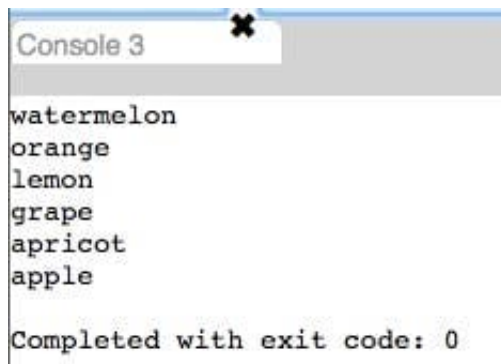
Given:

```
import java.util.ArrayList;
import java.util.Arrays;
public class NewMain {
    public static void main(String[] args) {
        String[] fruitNames = { "apple", "orange",
            "grape", "lemon", "apricot", "watermelon" };
        var fruits = new ArrayList<>(Arrays.asList(fruitNames));
        fruits.sort((var a, var b) -> -a.compareTo(b));
        fruits.forEach(System.out::println);
    }
}
```

What is the result?

- A. watermelon orange lemon grape apricot apple
- B. nothing
- C. apple apricot grape lemon orange watermelon
- D. apple orange grape lemon apricot watermelon

Correct Answer: A



```
Console 3
watermelon
orange
lemon
grape
apricot
apple
Completed with exit code: 0
```

QUESTION 2

Given TripleThis.java:

```
6. import java.util.function.*;
7. public class TripleThis {
8.     public static void main(String[] args) {
9.         Function tripler = x -> { return (Integer) x * 3; };
10.        TripleThis.printValue(tripler, 4);
11.    }
12.    public static <T> void printValue(Function f, T num) {
13.        System.out.println(f.apply(num));
14.    }
15. }
```

Compiling TripleThis.java gives this compiler warning:

Note: TripleThis.java uses unchecked or unsafe operations.

Which two replacements done together remove this compiler warning?

- A. Replace line 12 with `public static void printValue(Function f, int num) {`
- B. Replace line 12 with `public static void printValue(Function f, T num) {`
- C. Replace line 9 with `Function tripler = x —andgt; { return (Integer) x * 3; }`
- D. Replace line 12 with `public static void printValue(Function f, Integer num) {`
- E. Replace line 9 with `Function tripler = x -> { return x * 3; }`

Correct Answer: AD

QUESTION 3

Your organization makes `mlib.jar` available to your cloud customers. While working on a code cleanup project for `mlib.jar`, you see this method by customers:

```
public void enableService(String hostName, String portNumber) throws IOException {
    this.transportSocket = new Socket(hostName, portNumber);
}
```

What security measures should be added to this method so that it meets the requirements for a customer accessible method?

- A. Insert this code before the call to `new Socket`:
`hostName = new String(hostName);`
`portNumber = new String(portNumber);`
- B. Create a method that validates the `hostName` and `portNumber` parameters before opening the socket.
- C. Make `enableService` private.
- D. Enclose the call to `new Socket` in an `AccessController.doPrivileged` block.

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 4

Given:

```
public class Thing {
    private String name;
    public Thing(String name) {
        this.name = name;
    }
    public String toString() {
        return name;
    }
}
```

and

```
public class Tester {
    public static void main(String[] args) {
        Thing[] things = processThings();
        /* line 1 */
        for (Thing t: things) {
            System.out.println(t);
        }
    }
    public static Thing[] processThings(){
        Thing[] things = new Thing[3];
        things[0] = new Thing("Hat");
        things[1] = new Thing("Rat");
        things[2] = things[0];
        things[0] = new Thing("Cat");
        things[1] = things[2];
        return things;
    }
}
```

How many Thing objects are eligible for garbage collection in line 1?

A. 3

B. 2

C. 0

D. 1

E. 4

Correct Answer: D

QUESTION 5

Given:

```
public class Option {
    public static void main(String[] args) {
        System.out.println("Ans : " + convert("a").get());
    }

    private static Optional<Integer> convert(String s) {
        try {
            return Optional.of(Integer.parseInt(s));
        } catch (Exception e) {
            return Optional.empty();
        }
    }
}
```

What is the result?

- A. A java.util.NoSuchElementException is thrown at run time.
- B. Ans : a
- C. The compilation fails.
- D. Ans :

Correct Answer: A

QUESTION 6

Given the code fragment:

```
public class Test{
    public static void main(String[] args) {
        try {
            if ("oracle".equals("ORACLE".toLowerCase())) {
                throw new NoMatchException();
            }
        } catch (NoMatchException | NullPointerException npe) {
            System.out.println("Exception 1");
        } catch (RuntimeException e) {
            System.out.println("Exception 2");
        } catch (Exception e) {
            System.out.println("Exception 3");
        } finally {
            System.out.println("Finally Block");
        }
    }
}
```

How many lines of text does this program print?

- A. four
- B. one
- C. three
- D. two

Correct Answer: D

QUESTION 7

Given:

```
String[][] arr = {
    {"Red", "White"},
    {"Black"},
    {"Blue", "Yellow", "Green", "Violet"}
};
for(int row = 0; row < arr.length; row++) {
    int column = 0;
    for(; column < arr[row].length; column++) {
        System.out.println "[" + row + ", " + column + "] = " + arr[row][column]);
    }
}
```

What is the result?

A. [0,0] = Red[0,1] = White[1,0] = Black[1,1] = Blue[2,0] = Yellow[2,1] = Green[3,0] = Violet

B. [0,0] = Red[1,0] = Black[2,0] = Blue

C. java.lang.ArrayIndexOutOfBoundsException thrown

D. [0,0] = Red[0,1] = White[1,0] = Black[2,0] = Blue[2,1] = Yellow[2,2] = Green[2,3] = Violet

Correct Answer: D



```
Console 1 x Console 2 x Console 3 x
[0,0] =Red
[0,1] =White
[1,0] =Black
[2,0] =Blue
[2,1] =Yellow
[2,2] =Green
[2,3] =Violet
Completed with exit code: 0
```

QUESTION 8

Given:

```
public class Tester {
    public static void main(String[] args) {
        StringBuilder sb = new StringBuilder(5);
        sb.append("HOWDY");
        sb.insert(0, ' ');
        sb.replace(3, 5, "LL");
        sb.insert(6, "COW");
        sb.delete(2, 7);
        System.out.println(sb.length());
    }
}
```

What is the result?

A. 4

B. 3

C. An exception is thrown at runtime.

D. 5

Correct Answer: A

```
1 import java.lang.StringBuilder;
2 public class Tester {
3     public static void main(String[] args) {
4         StringBuilder sb = new StringBuilder(5);
5         sb.append("HOWDY");
6         sb.insert(0, ' ');
7         sb.replace(3, 5, "LL");
8         sb.insert(6, "COW");
9         sb.delete(2, 7);
10        System.out.println(sb.length());
11    }
12 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: 0.12 sec(s), Memory: 30392 kilobyte(s)



4

interface, text, application, chat or text message

QUESTION 9

Given:


```
1. public class Main {
2.     public static void greet(String... args) {
3.         System.out.print("Hello ");
4.         for (String arg : args) {
5.             System.out.println(arg);
6.         }
7.     }
8.     public static void main(String[] args) {
9.         Main c = null;
10.        c.greet();
11.    }
12. }
```

What is the result?

- A. NullPointerException is thrown at line 4.
- B. NullPointerException is thrown at line 10.
- C. A compilation error occurs.
- D. Hello

Correct Answer: C

QUESTION 10

Given:

```
// line 1
var fruits = List.of("apple", "orange", "banana", "lemon");
fruits.forEach(function);
```

Which statement on line 1 enables this code to compile?

- A. Consumer function = (String f) -> (System.out.println(f));
- B. Supplier function = () -> fruits.get (0);
- C. Predicate function = a -> a.equals("banana");
- D. Function function = x -> x.substring(0,2);

Correct Answer: A

As Consumer is actually Consumer so it expects an Object rather than a String. It would've worked if it were: f -> System.out.println(f);

QUESTION 11

Given:

```
enum QUALITY {
    A(100), B(75), C(50);
    int percent;
    private QUALITY(int percent) {
        this.percent = percent;
    }
}
```

and checkQuality(QUALITY.A); and Which code fragment can be inserted into the switch statement to print Best?

```
void checkQuality(QUALITY q) {
    switch (q) {
        case /* Insert code here */ :
            System.out.println("Best");
            break;
        default :
            System.out.println("Not best");
            break;
    }
}
```

A. QUALITY.A.ValueOf()

B. A

C. A.toString()

D. QUALITY.A

Correct Answer: B

QUESTION 12

Given: And the command: java Main Helloworld What is the result ?

```
public class Main {
    public static void main(String[] args) {
        try(BufferedReader in = new BufferedReader(new InputStreamReader(System.in))) {
            System.out.print("Input: ");
            String input = in.readLine();
            System.out.println("Echo: " + input);
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
```

- A. Input: Echo:
- B. Input: Helloworld Echo: Helloworld
- C. Input: Then block until any input comes from System.in.
- D. Input: Echo: Helloworld
- E. A NullPointerException is thrown at run time.

Correct Answer: C



```
sample.java x +
1 import java.util.*;
2 import java.io.*;
3 import java.util.stream.Stream;
4 import java.lang.String;
5 import java.util.List;
6 import java.util.function.BinaryOperator;
7
8 import java.util.Scanner;
9
10 public class sample{
11     public static void main (String[] args)
12     {
13         try (BufferedReader in = new BufferedReader(new InputStreamReader(System.in)))
14         {
15             System.out.print("Input:");
16             String input = in.readLine();
17             System.out.print("Input:" + input);
18         }
19         catch (IOException e)
20         {e.printStackTrace();}
21     }
}
```

Console 10 x
Input:

Slide

QUESTION 13

```
11  
12 public class Main {  
13     public static void main(String[] args) {  
14  
15         List<String> list1 = new ArrayList<>();  
16         list1.add("A");  
17         list1.add("B");  
18         List list2 = List.copyOf(list1);  
19         list2.add("C");  
20         List<List<String>> list3 = List.of(list1, list2);  
21         System.out.println(list3);  
22     }  
23  
24 }  
25
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4 Interactive Stdin Inputs

CommandLine Arguments

Result

CPU Time: 0.16 sec(s), Memory: 32128 kilobyte(s)

```
Exception in thread "main" java.lang.UnsupportedOperationException  
    at java.base/java.util.ImmutableCollections.uoe(ImmutableCollections.java:71)  
    at java.base/java.util.ImmutableCollections$AbstractImmutableCollection.add(ImmutableCollections.java:75)  
    at Main.main(Main.java:19)
```

Which method throws an exception for not-a-number and infinite input values?

- A.

```
static float validate1(String s) throws IllegalArgumentException {
    return Float.parseFloat(s);
}
```
- B.

```
static float validate3(String s, float min, float max) throws IllegalArgumentException {
    float f = Float.parseFloat(s);
    if (!Float.isFinite(f) || f < min || f > max) {
        throw new IllegalArgumentException();
    }
    return f;
}
```
- C.

```
static float validate2(String s, float min, float max) throws IllegalArgumentException {
    float f = Float.parseFloat(s);
    if (f < min || f > max) {
        throw new IllegalArgumentException();
    }
    return f;
}
```
- D.

```
static float validate4(String s, float min, float max) throws IllegalArgumentException {
    float f = Float.parseFloat(s);
    if (Float.isFinite(f) && f < min && f > max) {
        throw new IllegalArgumentException();
    }
    return f;
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 14

Which two var declarations are correct? (Choose two.)

A. `var names = new ArrayList();`

B. `var _ = 100;`

C. `var var = "hello";`

D. `var y = null;`

E. `var a;`

Correct Answer: AC

QUESTION 15

Which two statements are true about Java modules? (Choose two.)

- A. Modular jars loaded from --module-path are automatic modules.
- B. Any named module can directly access all classes in an automatic module.
- C. Classes found in -classpath are part of an unnamed module.
- D. Modular jars loaded from -classpath are automatic modules.
- E. If a package is defined in both the named module and the unnamed module, then the package in the unnamed module is ignored.

Correct Answer: AC

Reference: <http://tutorials.jenkov.com/java/modules.html>

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