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Java SE 11 Programmer II

Oracle 1z0-816

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QUESTION NO: 1

Given an application with a main module that has this module-info.java file:

```
module main {  
    exports country;  
    uses country.CountryDetails;  
}
```

Which two are true? (Choose two.)

- A.** A module providing an implementation of `country.CountryDetails` can be compiled and added without recompiling the main module.
- B.** A module providing an implementation of `country.CountryDetails` must have a `requires main;` directive in its `module-info.java` file.
- C.** An implementation of `country.countryDetails` can be added to the main module.
- D.** To compile without an error, the application must have at least one module in the module source path that provides an implementation of `country.CountryDetails`.
- E.** To run without an error, the application must have at least one module in the module path that provides an implementation of `country.CountryDetails`.

ANSWER: B D

Explanation:

Reference: <https://stackoverflow.com/questions/49476559/java-9-error-not-in-a-module-on-the-module-source-path>

QUESTION NO: 2

Given:

```
String originalPath = "data\\projects\\a-project\\..\\..\\another-project";
```

```
Path path = Paths.get(originalPath); System.out.print(path.normalize());
```

What is the result?

- A.** `data\\another-project`
- B.** `data\\projects\\a-project\\another-project`
- C.** `data\\projects\\a-project\\..\\..\\another-project`
- D.** `data\\projects\\a-project\\..\\..\\another-project`

ANSWER: D

Explanation:

```
1 import java.util.*;
2 import java.io.*;
3 import java.nio.file.*;
4
5 public class Test {
6
7     public static void main(String[] args) {
8         String originalPath = "data\\projects\\a-project\\..\\..\\another-project";
9         Path path = Paths.get(originalPath);
10        System.out.print(path.normalize());
11    }
12 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

Interactive

Stdin Inp

CommandLine Arguments

Execute

Result

CPU Time: 0.19 sec(s), Memory: 31984 kilobyte(s)

```
data\projects\a-project\..\..\another-project
```

QUESTION NO: 3

Which three guidelines are used to protect confidential information? (Choose three.)

- A. Limit access to objects holding confidential information.
- B. Clearly identify and label confidential information.
- C. Manage confidential and other information uniformly.
- D. Transparently handle information to improve diagnostics.
- E. Treat user input as normal information.

F. Validate input before storing confidential information.

G. Encapsulate confidential information.

ANSWER: A D F

Explanation:

Reference: <https://danielkvist.net/code/java-secure-coding-guidelines>

QUESTION NO: 4

Which two statements set the default locale used for formatting numbers, currency, and percentages? (Choose two.)

- A. `Locale.setDefault(Locale.Category.FORMAT, "zh-CN");`
- B. `Locale.setDefault(Locale.Category.FORMAT, Locale.CANADA_FRENCH);`
- C. `Locale.setDefault(Locale.SIMPLIFIED_CHINESE);`
- D. `Locale.setDefault("en_CA");`
- E. `Locale.setDefault("es", Locale.US);`

ANSWER: B D

Explanation:

Reference: <https://www.oracle.com/technical-resources/articles/javase/locale.html>

QUESTION NO: 5

Which two statements independently compile? (Choose two.)

- A. `List list = new ArrayList();`
- B. `List list = new ArrayList();`
- C. `List list = new ArrayList();`
- D. `List list = new ArrayList();`
- E. `List list = new ArrayList();`

ANSWER: A C

Explanation:

```
1 import java.util.*;
2 import java.text.*;
3 import java.io.*;
4 import java.lang.Thread;
5 import java.util.ArrayList;
6 import java.util.LinkedList;
7 import java.util.List;
8 import java.util.function.Consumer;
9 import java.util.stream.Stream;
10 import java.util.stream.IntStream;
11 import java.util.Optional;
12
13 public class Intel {
14     public static void main (String[] args) {
15         List<? extends Number> list = new ArrayList<Byte>()
16     }
17 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

Result

compiled and executed in 1.173 sec(s)



QUESTION NO: 6

Given:

```
public class FunctionalInterfaceTest {  
    public static void main(String[] args) {  
        List fruits = Arrays.asList("apple", "orange", "banana");  
        Consumer<String> c = System.out::print;  
        Consumer<String> output = c.andThen(x -> System.out.println(":" + x.toUpperCase  
    ));  
        fruits.forEach(output);  
    }  
}
```

What is the output?

- A. :APPLE:ORANGE:BANANA appleorangebanana
- B. :APPLE:ORANGE:BANANA
- C. APPLE:apple
ORANGE:orange
BANANA:banana
- D. appleorangebanana
:APPLE:ORANGE:BANANA
- E. apple:APPLE orange:ORANGE banana:BANANA

ANSWER: E

Explanation:

```
1 import java.util.*;
2 import java.io.*;
3 import java.lang.Thread;
4 import java.util.ArrayList;
5 import java.util.LinkedList;
6 import java.util.List;
7 import java.util.function.Consumer;
8
9 public class FunctionalInterfaceTest {
10 public static void main (String[] args) {
11     List fruits = Arrays.asList("apple", "orange", "banana");
12     Consumer<String> c = System.out::print;
13     Consumer<String> output = c.andThen(x -> System.out.println(":" + x.toUpperCase()));
14
15     fruits.forEach(output);
16 }
17 }
18 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

Interactive

Stdin Inputs

CommandLine Arguments

 Execute



Result

CPU Time: 0.26 sec(s), Memory: 32984 kilobyte(s)

```
apple:APPLE
orange:ORANGE
banana:BANANA
```

QUESTION NO: 7

Given the code fragment:

```
Path currentFile = Paths.get("/scratch/exam/temp.txt");
```

```
Path outputFile = Paths.get("/scratch/exam/new.txt");
```

```
Path directory = Paths.get("/scratch/");
```

```
Files.copy(currentFile, outputFile);
```

```
Files.copy(outputFile, directory); Files.delete (outputFile);
```

The /scratch/exam/temp.txt file exists. The /scratch/exam/new.txt and /scratch/new.txt files do not exist.

What is the result?

- A. /scratch/exam/new.txt and /scratch/new.txt are deleted.
- B. The program throws a FileAlreadyExistsException.
- C. The program throws a NoSuchFileException.
- D. A copy of /scratch/exam/new.txt exists in the /scratch directory and /scratch/exam/new.txt is deleted.

ANSWER: C

Explanation:

Expalanation:

```
27 public class Main {
28     public static void main(String[] args) {
29         Path currentFile = Paths.get("/scratch/exam/temp.txt");
30         Path outputFile = Paths.get("/scratch/exam/new.txt");
31         Path directory = Paths.get("/scratch/");
32
33         Files.copy(currentFile, outputFile);
34         Files.copy(outputFile, directory);
35         Files.delete (outputFile);
36     }
37 }
38
```

QUESTION NO: 8

Given:

```
public class Main {
    public static void main(String[] args) {
        var numbers = List.of(1,2,3,4,5,6,7,8,9,10);
        Optional<Integer> result = numbers.stream().filter(x -> x % 3 != 0).reduce((i, j)
-> i + j);
        result.ifPresent(System.out::print); // line 1
    }
}
```

Which is true about line 1?

- A. If the value is not present, a NoSuchElementException is thrown at run time.
- B. It always executes the System.out::print statement.
- C. If the value is not present, a NullPointerException is thrown at run time.
- D. If the value is not present, nothing is done.

ANSWER: D

Explanation:

```
1 import java.util.*;
2 import java.io.*;
3 import java.lang.Thread;
4 import java.util.ArrayList;
5 import java.util.LinkedList;
6 import java.util.List;
7 import java.util.function.Consumer;
8 import java.util.stream.Stream;
9 import java.util.stream.IntStream;
10 import java.util.Optional;
11
12
13 public class Main {
14     public static void main(String[] args) {
15         var numbers = List.of(1,2,3,4,5,6,7,8,9,10);
16         Optional<Integer> result = numbers.stream().filter(x -> x % 3 != 0).reduce((i, j) -> i + j);
17
18     }
19 }
```

Result

CPU Time: 0.18 sec(s), Memory: 33380 kilobyte(s)

```
JDoodle in Action.... Running the program...
```

QUESTION NO: 9

Which two are functional interfaces? (Choose two.)

```
A. @FunctionalInterface
interface MyRunnable {
    public void run();
}

B. @FunctionalInterface
interface MyRunnable {
    public void run();
    public void call();
}

C. interface MyRunnable {
    public default void run() {}
    public void run(String s);
}

D. @FunctionalInterface
interface MyRunnable {
}

E. interface MyRunnable {
    @FunctionalInterface
    public void run();
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

ANSWER: C E

Explanation:

Reference: <http://tutorials.jenkov.com/java-functional-programming/functional-interfaces.html>

QUESTION NO: 10

Which is a proper JDBC URL?

- A. jdbe.mysql.com://localhost:3306/database

B. `http://localhost.mysql.com:3306/database`

C. `http://localhost mysql.jdbc:3306/database`

D. `jdbc:mysql://localhost:3306/database`

ANSWER: D

Explanation:

Reference: <https://vladmihalcea.com/jdbc-driver-connection-url-strings/>