1Z0-816 Q&As

Java SE 11 Programmer II

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QUESTION 1

Examine these module declarations:

```
module ServiceAPI {
    exports com.example.api;
}

module ServiceProvider {
    requires ServiceAPI;
    provides com.example.api with com.myimpl.Impl;
}

module Consumer {
    requires ServiceAPI;
    uses com.example.api;
}
```

Which two statements are correct? (Choose two.)

A. The ServiceProvider module is the only module that, at run time, can provide the com.example.api API.

B. The placement of the com.example.api API in a separate module, ServiceAPI, makes it easy to install

multiple provider modules.

C. The Consumer module should require the ServiceProvider module.

D. The ServiceProvider module should export the com.myimpl package.

E. The ServiceProvider module does not know the identity of a module (such as Consumer) that uses the com.example.api API.

Correct Answer: AC

QUESTION 2

Given:

```
@Target(ElementType.METHOD)
@Retention(RetentionPolicy.RUNTIME)
public @interface AuthorInfo {
     String author() default "";
     String date();
     String[] comments() default {};
}
```

Which two are correct? (Choose two.)

A.
```
@AuthorInfo(date="1-1-2020", comments={ null })
public class Hello {
     public void func() {}
}
```

B.
```
public class Hello {
@AuthorInfo (date="1-1-2020. comments="Hello")
     public void func() {}
}
```

C.
```
public class Hello {
     @AuthorInfo
     public void func() {}
}
```

D.
```
@AuthorInfo(date="1-1-2020")
public class Hello {
     public void func() {}
}
```

E.
```
public class Hello {
  @AuthorInfo(date="1-1-2020", author="Gandhi", comments={ "world" })
  public void func () {}
}
```

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: CD

QUESTION 3

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 FileaAlreadyExistsException.

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.

Correct Answer: C

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 4

Given the code fragment:

Path source = Paths.get("/repo/a/a.txt"); Path destination = Paths.get("/repo"); Files.move(source, destination); // line 1 Files.delete (source); // line 2

Assuming the source file and destination folder exist, what Is the result?

A. A java.nio.file.FileAlreadyExistsException is thrown on line 1.

B. A java.nio.file.NoSuchFileException is thrown on line 2.

C. A copy of /repo/a/a.txt is moved to the /repo directory and /repo/a/a.txt is deleted.

D. a.txt is renamed repo.

Correct Answer: C

QUESTION 5

Given: What will secure this code from a potential Denial of Service condition?

```
List<Reader> dataFiles = new ArrayList<>();
File indexFile = new File("MyIndex.idx");
try (BufferedReader indexReader =
      new BufferedReader(new FileReader(indexFile))) {
   for(String file = indexReader.readbine(); file != null;
      file = indexReader.readLine()) {
    BufferedReader dataReader = new BufferedReader (
      new FileReader(new File(file))); // Line 1
    dataFiles.add(dataReader); // Line 2
    processData(dataReader); // Line 3
   }
} catch (IOException ex) {
   ...
} finally {
   for(Reader r : dataFiles) {
      try {
         r.close();
      } catch (IOException ex) (
         ...
      } // Line 4
   }
}
```

A. After Line 4, add indexReader.close().

B. On Line 3, enclose processData(dataReader) with try with resources.

C. After Line 3, add dataReader.close().

D. On Line 1, use try with resources when opening each dataReader.

E. Before Line 1, check the size of dataFiles to make sure it does not exceed a threshold.

Correct Answer: B