1Z0-816 Q&As

Java SE 11 Programmer II

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QUESTION 1

Given: Assume the file on path does not exist. What is the result?

```
public class Main {
    public static void main(String[] args) {
        try {
            Path path = Paths.get("/u01/work/filestore.txt");
            boolean result = Files.deleteIfExists(path);
            if(result) System.out.println(path + "is deleted.");
            else System.out.println(path + "is not deleted.");
        } catch(IOException e) {
            System.out.println("Exception");
        }
    }
}
```

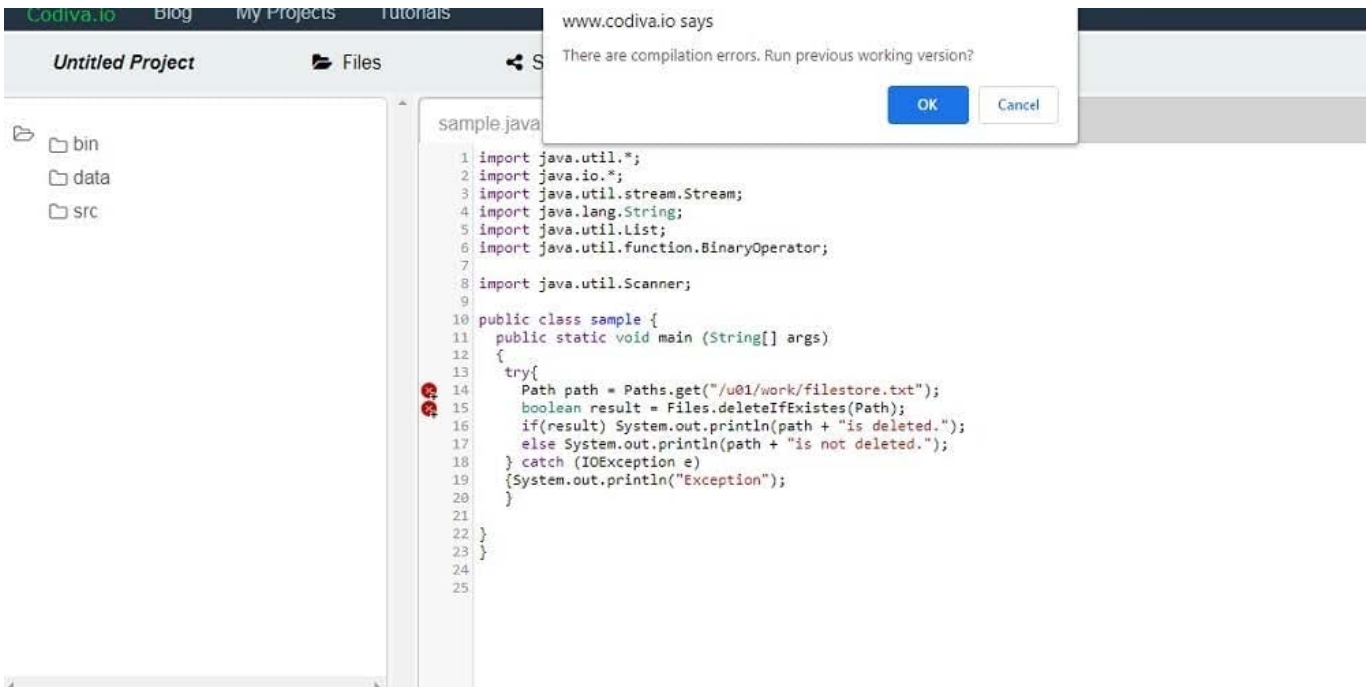
A. The compilation fails.

B. /u01/work/filestore.txt is not deleted.

C. Exception

D. /u01/work/filestore.txt is deleted.

Correct Answer: A



QUESTION 2

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?

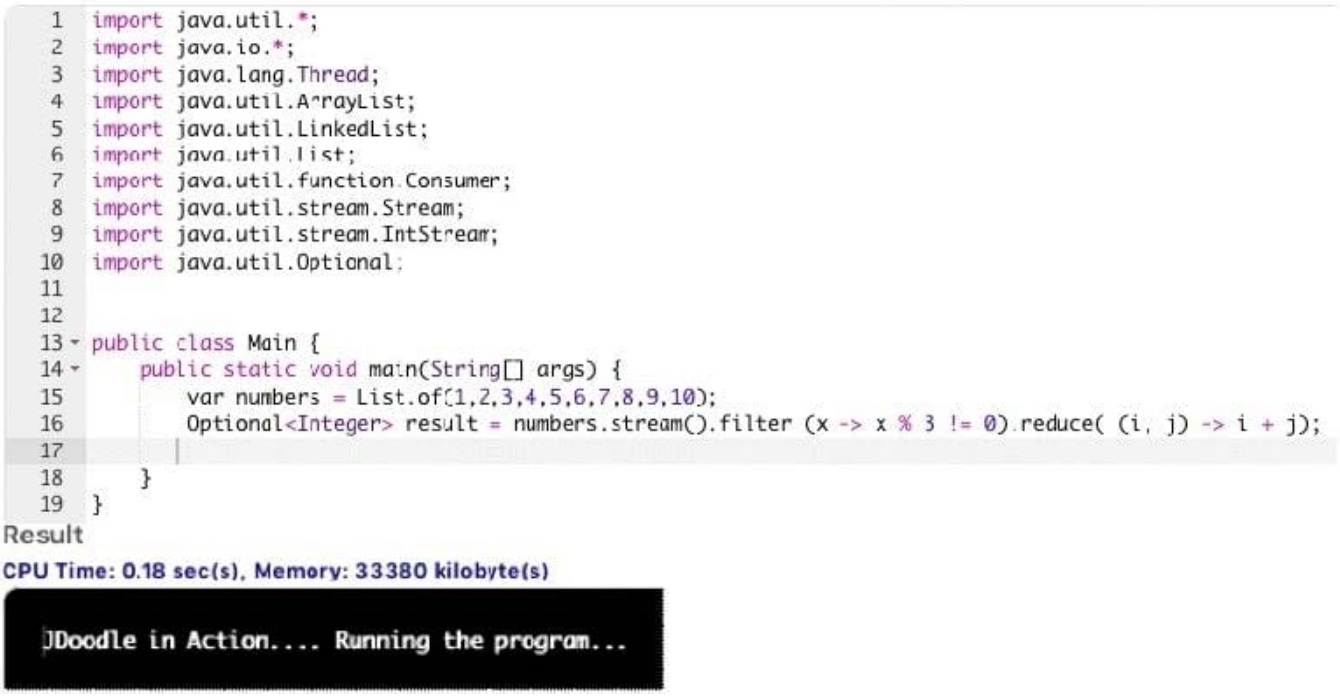
A. If the value is not present, a NoSuchElementException is thrown at run time.

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.

Correct Answer: D



QUESTION 3

Assuming the Widget class has a getPrice method, this code does not compile:

```
List widgets = List.of(new Widget("Basic Widget", 19.55), // line 1
                       new Widget("Enhanced Widget", 35.00),
                       new Widget("Luxury Edition Widget", 55.45));
Stream widgetStream = widgets.stream();                    // line 4
widgetStream.filter(a -> a.getPrice() > 20.00)             // line 5
            .forEach(System.out::println);
```

Which two statements, independently, would allow this code to compile? (Choose two.)

A. Replace line 5 with widgetStream.filter(a -> ((Widget)a).getPrice() > 20.00).

B. Replace line 1 with List widgetStream = widgets.stream();.

C. Replace line 5 with widgetStream.filter((Widget a) -> a.getPrice() > 20.00).

D. Replace line 4 with Stream widgetStream = widgets.stream();.

Correct Answer: AD

QUESTION 4

Given:

```
public class Confidential implements Serializable{
   private String data;

   public Confidential(String data) {
      this.data = data;
   }
}
```

Which two are secure serialization of these objects? (Choose two.)

A. Define the serialPersistentFields array field.

B. Declare fields transient.

C. Implement only readResolve to replace the instance with a serial proxy and not writeReplace.

D. Make the class abstract.

E. Implement only writeReplace to replace the instance with a serial proxy and not readResolve.

Correct Answer: AC

QUESTION 5

Given these two classes:

```
public class Resource {
   public Worker owner;
   public synchronized boolean claim(Worker worker) {
      if (owner == null) {
           owner = worker;
           return true;
      }
      else return false;
   }
   public synchronized void release() {
      owner = null;
   }
}

public class Worker {
   public synchronized void work(Resource... resources) {
      for (int i = 0; i < 10; i++) {
           while (!resources[0].claim(this)) { }
           while (!resources[1].claim(this)) { }
           // do work with resource
           resources[1].release();
           resources[0].release();
      }
   }
}
```

And given this fragment: Which describes the fragment?

```
Worker w1 = new Worker();
Worker w2 = new Worker();
Resource r1 = new Resource();
Resource r2 = new Resource();
new Thread( () -> {
     w1.work(r1, r2);
} ).start();
new Thread( () -> {
     w2.work(r2, r1);
} ).start();
```

A. It throws IllegalMonitorStateException.

B. It is subject to deadlock.

C. It is subject to livelock.

D. The code does not compile.

Correct Answer: D

QUESTION 6

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

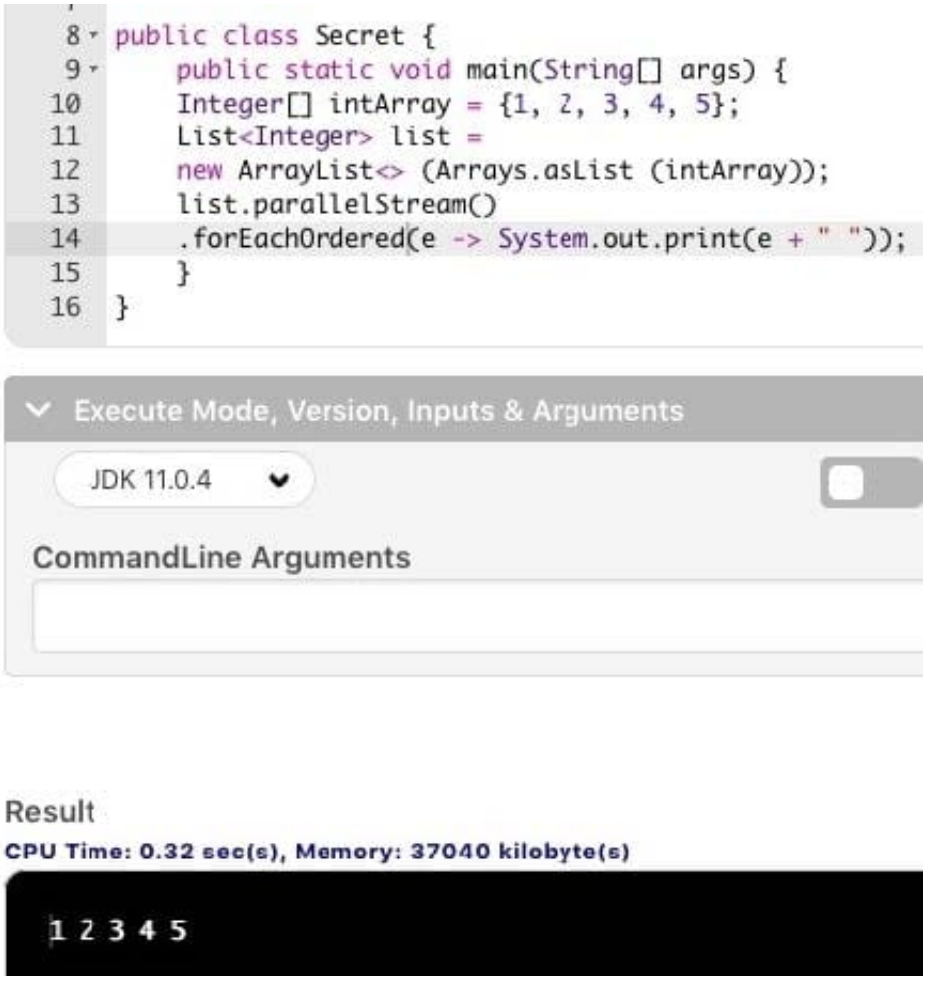
C. Option C

D. Option D

E. Option E

Correct Answer: CD

QUESTION 7



Given the contents:

MessageBundle.properties file:

message=Hello

MessageBundle_en.properties file:

message=Hello (en)

MessageBundle_US.properties file:

message=Hello (US)

MessageBundle_en_US.properties file:

message=Hello (en_US)

MessageBundle_fr_FR.properties file:

message=Bonjour

and the code fragment:

Locale.setDefault(Locale.FRANCE);

Locale currentLocale = new Locale.Builder().setLanguage("en").build();

ResourceBundle messages = ResourceBundle.getBundle("MessageBundle", currentLocale);

System.out. println(messages.getString("message"));

Which file will display the content on executing the code fragment?

A. MessageBundle_en_US.properties

B. MessageBundle_en.properties

C. MessageBundle_fr_FR.properties

D. MessageBundle_US.properties

E. MessageBundle.properties

Correct Answer: C

Reference: https://www.javatpoint.com/ResourceBundle-class

QUESTION 8

Given the Person class with age and name along with getter and setter methods, and this code fragment:

```
List<Person> persons = new ArrayList(List.of(new Person(44,"Tom"),
                                              new Person(40,"Aman"),
                                              new Person(40,"Peter")));
persons.sort(Comparator.comparing((Person::getAge))
                                    .thenComparing(Person::getName)
                                    .reversed());
persons.forEach(p1->System.out.print(" "+p1.getName()));
```

What will be the result?

A. Aman Tom Peter

B. Tom Aman Peter

C. Aman Peter Tom

D. Tom Peter Aman

Correct Answer: C

QUESTION 9

Which statement about a functional interface is true?

A. It must be defined with the public access modifier.

B. It must be annotated with @FunctionalInterface.

C. It is declared with a single abstract method.

D. It is declared with a single default method.

E. It cannot have any private methods and static methods.

Correct Answer: C

Reference: https://www.geeksforgeeks.org/functional-interfaces-java/

QUESTION 10

Given:

```
public class SerializedMessage implements Serializable {
    String message;
    LocalDateTime createdTime;
    transient LocalDateTime updatedDateTime;;
    SerializedMessage(String message) {
       this.message = message;
       this.createdTime = LocalDateTime.now();
    }
    private void readObject (ObjectInputStream in) {
       try {
          in.defaultReadObject();
          this.updatedDateTime = LocalDateTime.now();
       } catch (IOException |ClassNotFoundException e) {
         e.printStackTrace();
       }
    }
}
```

When is the readObject method called?

A. before this object is deserialized

B. after this object is deserialized

C. before this object Is serialized

D. The method is never called.

E. after this object is serialized

Correct Answer: B

Reference: https://www.oracle.com/technical-resources/articles/java/javaserial.html

QUESTION 11

Given the code fragment:

var pool = Executors.newFixedThreadPool(5);

Future outcome = pool.submit(() -> 1);

Which type of lambda expression is passed into submit()?

A. java.lang.Runnable

B. java.util.function.Predicate

C. java.util.function.Function

D. java.util.concurrent.Callable

Correct Answer: D

Reference: https://www.codota.com/code/java/methods/java.util.concurrent.Executors/ newFixedThreadPool

QUESTION 12

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

QUESTION 13

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.

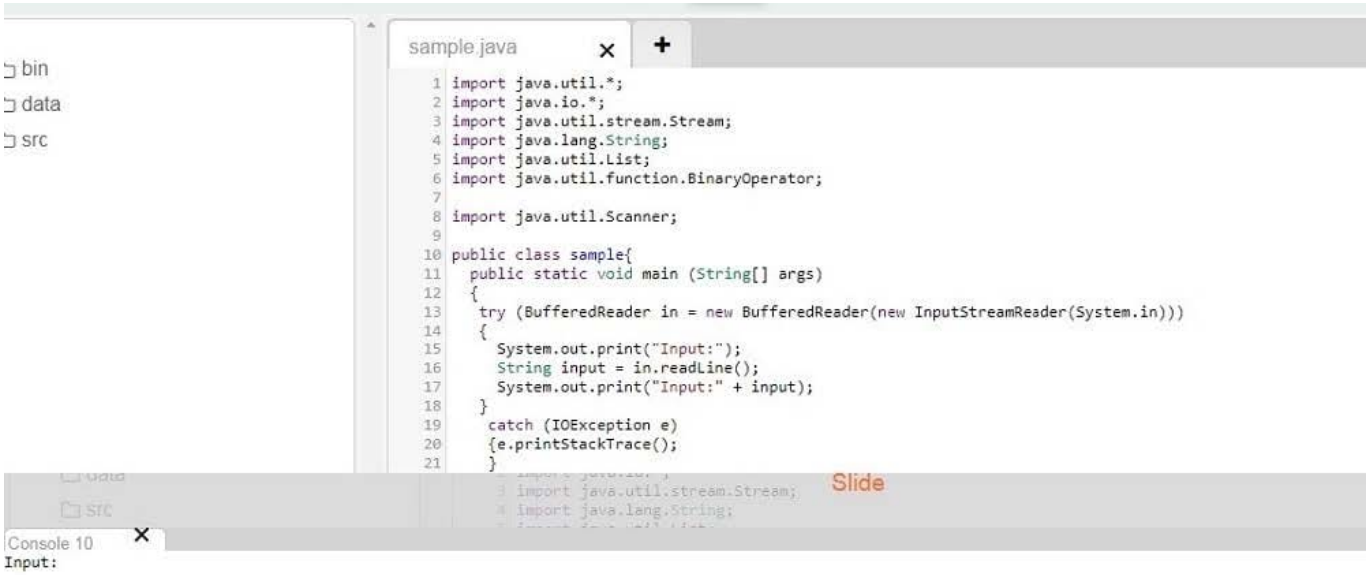
B. A java.nio.file.NoSuchFileException is thrown on line 2.

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 14



Given:

public class X { }

and public final class Y extends X { }

What is the result of compiling these two classes?

A. The compilation fails because there is no zero args constructor defined in class X.

B. The compilation fails because either class X or class Y needs to implement the toString() method.

C. The compilation fails because a final class cannot extend another class.

D. The compilation succeeds.

Correct Answer: B

QUESTION 15

Given:

List longlist = List.of("Hello","World","Beat"); List shortlist = new ArrayList();

Which code fragment correctly forms a short list of words containing the letter "e"?

A.
```
longList.stream()
        .filter(w -> w.indexOf('e') != -1)
        .parallel()
        .forEach(w -> shortList.add(w));
```

B.
```
longList.parallelStream()
        .filter(w -> w.indexOf('e') != -1)
        .forEach(w -> shortList.add(w));
```

C.
```
shortList = longList.stream()
        .filter(w -> w.indexOf('e') != -1)
        .parallel()
        .collect(Collectors.toList());
```

D.
```
longList.stream()
        .filter(w  > w.indexOf('e') !=  1)
        .parallel()
        .collect(shortlist);
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C