

1Z0-816^{Q&As}

Java SE 11 Programmer II

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QUESTION 1

Given:

```
1.  public class Secret {
2.      String[] names;
3.      public Secret(String[] names) {
4.          this.names = names;
5.      }
6.      public String[] getNames() {
7.          return names;
8.      }
9.  }
```

Which three actions implement Java SE security guidelines? (Choose three.)

- A. Change line 7 to return names.clone();.
- B. Change line 4 to this.names = names.clone();.
- C. Change the getNames() method name to get\$Names().
- D. Change line 6 to public synchronized String[] getNames() {.
- E. Change line 2 to private final String[] names;.
- F. Change line 3 to private Secret(String[] names) {.
- G. Change line 2 to protected volatile String[] names;.

Correct Answer: EFG

QUESTION 2

Given:

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

and checkQuality(QUALITY.A); and

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

Which code fragment can be inserted into the switch statement to print Best?

A. QUALITY.A.ValueOf()

B. A

C. A.toString()

D. QUALITY.A

Correct Answer: B

QUESTION 3

```
sample.java  
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
Input:

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 4

Which interface in the java.util.function package can return a primitive type?

- A. ToDoubleFunction
- B. Supplier
- C. BiFunction
- D. LongConsumer

Correct Answer: A

Reference: <http://java.boot.by/ocpjp8-upgrade-guide/ch02s07.html>

QUESTION 5

Given: When run and all three files exist, what is the state of each reader on Line 1?

```
public static void main(String[] args) {  
    try (Reader reader1 = new FileReader("File1.txt");  
        Reader reader2 = new FileReader("File2.txt");  
        Reader reader3 = new FileReader("File3_txt")) {  
  
        } catch (IOException ex) {  
            Logger.getLogger(Main.class.getName()).log(Level.SEVERE, null, ex);  
        }  
    // Line 1  
    System.out.println("Done");  
}
```

- A. All three readers are still open.
- B. All three readers have been closed.
- C. The compilation fails.

D. Only reader1 has been closed.

Correct Answer: C

QUESTION 6

Given: What is the result?

```
int arr[][] = {{5,10},{8,12},{9,3}};
long count = Stream.of(arr)
    .flatMapToInt(IntStream::of)
    .map(n -> n + 1)
    .filter(n -> (n % 2 == 0))
    .peek(System.out::print)
    .count();
System.out.println(" " + count);
```

A. 6910 3

B. 10126 3

C. 3

D. 6104 3

Correct Answer: D

QUESTION 7

Given:

```
public class MyResource {
    public MyResource () {
    }
    // Resource methods
}
```

You want to use the myResource class in a try-with-resources statement. Which change will accomplish this?

A. Extend AutoCloseable and override the close method.

B. Implement AutoCloseable and override the autoClose method.

C. Extend AutoCloseable and override the autoClose method.

D. Implement AutoCloseable and override the close method.

Correct Answer: D

Reference: <https://stackabuse.com/the-try-with-resources-statement-in-java/>

QUESTION 8

Which code fragment compiles?

- A.

```
Comparator comparator = new Comparator<?>() {  
    public int compare(Integer i, Integer j) {  
        return i.compareTo(j);  
    }  
};
```
- B.

```
var comparator = new Comparator<>() {  
    public int compare(Integer i, Integer j) {  
        return i.compareTo(j);  
    }  
};
```
- C.

```
Comparator<> comparator = new Comparator<Integer>() {  
    public int compare(Integer i, Integer j) {  
        return i.compareTo(j);  
    }  
};
```
- D.

```
Comparator<Integer> comparator = new Comparator<>() {  
    public int compare(Integer i, Integer j) {  
        return i.compareTo(j);  
    }  
};
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

```
1 import java.io.*;
2 import java.util.*;
3 class abc {
4     public static void main(String[] args) {
5
6         Comparator<Integer> comparator = new Comparator<>() {
7             public int compare(Integer i, Integer j) {
8                 return i.compareTo(j);
9             }
10        };
11
12    }
13 }
14
```

QUESTION 9

Given:

```
1. public class Test {
2.     private static class Greet {
3.         private void print() {
4.             System.out.println("Hello World");
5.         }
6.     }
7.     public static void main(String[] args) {
8.         Test.Greet i = new Greet();
9.         i.print();
10.    }
11. }
```

What is the result?

- A. The compilation fails at line 9.
- B. The compilation fails at line 2.
- C. Hello World
- D. The compilation fails at line 8.

Correct Answer: C

QUESTION 10

Given: Which statement on line 1 enables this code to compile?


```
var numbers = List.of(1,2,3,4,5,6,7,8,9,10);  
// line 1  
StringBuilder sb = new StringBuilder();  
for(int a: numbers) {  
    sb.append(f.apply(a));  
    sb.append(" ");  
}  
System.out.println(sb.toString());
```

- A. Function $f = n \rightarrow n * 2$;
- B. Function $f = n \rightarrow n * 2$;
- C. Function $f = n \rightarrow n * 2$;
- D. Function $f = n \rightarrow n * 2$;
- E. Function $f = n \rightarrow n * 2$;

Correct Answer: A

```
15  
16 ▾ public class Main {  
17 ▾     public static void main(String[] args) {  
18         var numbers = List.of(1,2,3,4,5,6,7,8,9,10);  
19         Function<Integer, Integer> f = n -> n * 2;  
20         StringBuilder sb = new StringBuilder();  
21 ▾         for(int a: numbers) {  
22             sb.append(f.apply(a));  
23             sb.append(" ");  
24         }  
25         System.out.println(sb.toString());  
26     }  
27 }  
28
```

Result

CPU Time: 0.22 sec(s), Memory: 33056 kilobyte(s)

2 4 6 8 10 12 14 16 18 20

QUESTION 11

Given:


```
public class Tester {
    static class Person implements /* line 1 */ {
        private String name;
        Person(String name) { this.name = name; }
        /* line 2 */
    }
    public static void main(String[] args) {
        Person[] people = {new Person("Joe"),
                           new Person("Jane"),
                           new Person("John")};
        Arrays.sort(people);
        for(Person person: people) {
            System.out.println(person.name);
        }
    }
}
```

You want the code to produce this output:

John Joe Jane

Which code fragment should be inserted on line 1 and line 2 to produce the output?

- A. Insert Comparator on line 1. Insert `public int compare(Person p1, Person p2) { return p1.name.compare(p2.name); }` on line 2.
- B. Insert Comparator on line 1. Insert `public int compareTo(Person person) { return person.name.compareTo(this.name); }` on line 2.
- C. Insert Comparable on line 1. Insert `public int compare(Person p1, Person p2) { return p1.name.compare(p2.name); }` on line 2.
- D. Insert Comparator on line 1. Insert `public int compare(Person person) { return person.name.compare(this.name); }` on line 2.

Correct Answer: B

Reference: <https://www.coursehero.com/file/p320ss6/Override-public-int-compareTo-Person-otherCompare-this-objects-name-to-others/>

QUESTION 12

```
1
2 import java.io.*;
3 import java.util.*;
4 public class Hello {
5     class Greeting {
6         void sayHi() {
7             System.out.println("Hello world");
8         }
9     }
10    public static void main(String... args) {
11        Hello myH = new Hello();
12        Hello.Greeting myG = myH.new Greeting();
13        myG.sayHi();
14    }
15 }
```

Console 3

Console 4

Hello world

Completed with exit code: 0

Which code fragment prints 100 random numbers?

- A. `var r= new Random();
new DoubleStream(r::nextDouble).limit(100).forEach(System.out::print);`
- B. `DoubleStream.generate(Random::nextDouble)
.limit (100).forEach(System.out::print);`
- C. `Doublestream.generate(Random.nextDouble).limit(100).forEach(System.out.print);`
- D. `var r = new Random(); DoubleStream.generate(r::nextDouble).limit(100).forEach(System.out::print);`

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

Reference: <https://www.javacodegeeks.com/2014/01/java-util-random-in-java-8.html>

QUESTION 13

You are working on a functional bug in a tool used by your development organization. In your investigation, you find that the tool is executed with a security policy file containing this grant.

```
grant codebase "file:${klib.home}/j2se/home/klib.jar" {  
    permission java.security.AllPermission;  
};
```

What action should you take?

- A. Nothing, because it is an internal tool and not exposed to the public.
- B. Remove the grant because it is excessive.
- C. Nothing, because it is not related to the bug you are investigating.
- D. File a security bug against the tool referencing the excessive permission granted.
- E. Nothing, because listing just the required permissions would be an ongoing maintenance challenge.

Correct Answer: D

Reference: <https://wiki.sei.cmu.edu/confluence/display/java/ENV03-J.+Do+not+grant+dangerous+combinations+of+permissions>

QUESTION 14

Given:

```
public class Hello {  
    class Greeting {  
        void sayHi() {  
            System.out.println("Hello world");  
        }  
    }  
    public static void main(String... args) {  
        // Line 1  
    }  
}
```

What code must you insert on Line 1 to enable the code to print Hello world?

- A. `Hello.Greeting myG = new Hello.Greeting() myG.sayHi();`
- B. `Hello myH = new Hello(); Hello.Greeting myG = myH.new Greeting(); myG.sayHi();`
- C. `Hello myH = new Hello(); Hello.Greeting myG = myH.new Hello.Greeting(); myG.sayHi();`

D. Hello myH = new Hello(); Greeting myG = new Greeting(); myG.sayHi ();

Correct Answer: B

QUESTION 15

```
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
11
12  public class Main {
13
14      public static void main(String[] args) {
15          int arr[][] = {{5,10}, {8,12}, {9,3}};
16          long count = Stream.of(arr)
17              .flatMapToInt(IntStream::of)
18              .map (n -> n + 1)
19              .filter(n -> (n % 2 == 0))
20              .peek(System.out::print)
21              .count();
22          System.out.println(" " + count);
23      }
24  }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: 0.32 sec(s), Memory: 34220 kilobyte(s)

6104 3

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

Correct Answer: D

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

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