

1Z0-809 - Java SE 8 Programmer II

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```
1. public class ForTest {  
  
    public static void main(String[] args) {  
  
        int[] arrar = {1,2,3};  
  
        for ( foo ) {  
  
        }  
  
        }  
  
    }
```

Which three are valid replacements for foo so that the program will compiled and run?

- A. int i: array
- B. int i = 0; i < 1; i++
- C. ;;
- D. ; i < 1; i++
- E. ; i < 1;

Answer: A,B,C

2. Given the definition of the Vehicle class:

```
Class Vehhicle {  
  
    int distance;//line n1  
  
    Vehicle (int x) {  
  
        this distance = x;  
  
    }  
  
    public void increSpeed(int time) { //line n2  
  
        int timeTravel = time;//line n3  
  
    }  
  
    class Car {  
  
        int value = 0;  
  
        public void speed () {
```

```
value = distance /timeTravel;  
  
System.out.println ("Velocity with new speed"+value+"kmph");  
  
}  
  
}  
  
new Car().speed();  
  
}  
  
}
```

and this code fragment:

```
Vehicle v = new Vehicle (100);  
  
v.increSpeed(60);
```

What is the result?

- A. Velocity with new speed
- B. A compilation error occurs at line n1.
- C. A compilation error occurs at line n2.
- D. A compilation error occurs at line n3.

Answer: A

3. Given the code fragments:

```
interface CourseFilter extends Predicate{  
  
public default boolean test (String str) {  
  
return str.equals ("Java");  
  
}  
  
}
```

and

```
Liststrs = Arrays.asList("Java", "Java EE", "Java ME");  
  
Predicatecf1 = s -> s.length() > 3;
```

```
Predicate cf2 = new CourseFilter() { //line n1
public boolean test (String s) {
return s.contains ("Java");
}
};
long c = strs.stream()
.filter(cf1)
.filter(cf2//line n2
.count());
System.out.println(c);
```

What is the result?

- A. 2
- B. 3
- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

Answer: A

4. Given:

```
class Book {
int id;
String name;
public Book (int id, String name) {
this.id = id;
this.name = name;
}
public boolean equals (Object obj) { //line n1
```

```
boolean output = false;

Book b = (Book) obj;

if (this.name.equals(b.name))

output = true;

}

return output;

}
```

and the code fragment:

```
Book b1 = new Book (101, "Java Programming");
Book b2 = new Book (102, "Java Programming");
System.out.println (b1.equals(b2)); //line n2
```

Which statement is true?

- A. The program prints true.
- B. The program prints false.
- C. A compilation error occurs. To ensure successful compilation, replace line n1 with:

```
boolean equals (Book obj) {
```

- D. A compilation error occurs. To ensure successful compilation, replace line n2 with:

```
System.out.println (b1.equals((Object) b2));
```

Answer: C

5. The data.doc, data.txt and data.xml files are accessible and contain text.

Given the code fragment:

```
Streampaths = Stream.of (Paths.get("data.doc"),
Paths.get("data.txt"),
Paths.get("data.xml"));
```

```
paths.filter(s-> s.toString().endsWith("txt")).forEach(  
s -> {  
try {  
Files.readAllLines(s)  
.stream()  
.forEach(System.out::println); //line n1  
} catch (IOException e) {  
System.out.println("Exception");  
}  
}  
);
```

What is the result?

- A. The program prints the content of data.txt file.
- B. The program prints:
Exception
<>
Exception
- C. A compilation error occurs at line n1.
- D. The program prints the content of the three files.

Answer: D

6. Given that /green.txt and /colors/yellow.txt are accessible, and the code fragment:

```
Path source = Paths.get("/green.txt");  
Path target = Paths.get("/colors/yellow.txt");  
Files.move(source, target, StandardCopyOption.ATOMIC_MOVE);  
Files.delete(source);
```

Which statement is true?

- A. The green.txt file content is replaced by the yellow.txt file content and the yellow.txt file is deleted.
- B. The yellow.txt file content is replaced by the green.txt file content and an exception is thrown.
- C. The file green.txt is moved to the /colors directory.
- D. A FileAlreadyExistsException is thrown at runtime.

Answer: D

7. Given:

```
public class MainMethod {  
  
    void main() {  
  
        System.out.println("one");  
  
    }  
  
    static void main(String args) {  
  
        System.out.println("two");  
  
    }  
  
    public static void main(String[] args) {  
  
        System.out.println("three");  
  
    }  
  
    void mina(Object[] args) {  
  
        System.out.println("four");  
  
    }  
  
}
```

What is printed out when the program is executed?

- A. one

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

Answer: C

8. Given:

```
public class Foo{  
  
private K key;  
  
private V value;  
  
public Foo (K key, V value) (this.key = key; this value = value;)  
  
public staticFootwice (T value) (return new Foo(value, value); )  
  
public K getKey () (return key;)  
  
public V getValue () (return value;)  
  
}
```

Which option fails?

- A. Foomark = new Foo("Steve", 100);
- B. Foopair = Foo.twice ("Hello World!");
- C. Foo percentage = new Foo <> (97, 32);
- D. Foograde = new Foo <> ("John", "A");

Answer: C

9. Given:

Item table

- ID, INTEGER: PK
- DESCRIP, VARCHAR(100)
- PRICE, REAL

- QUANTITY < INTEGER

And given the code fragment:

```
9. try {  
  
10. Connection conn = DriverManager.getConnection(dbURL, username, password);  
  
11. String query = "Select * FROM Item WHERE ID = 110";  
  
12. Statement stmt = conn.createStatement();  
  
13. ResultSet rs = stmt.executeQuery(query);  
  
14. while(rs.next()) {  
  
15. System.out.println("ID:" + rs.getInt("Id"));  
  
16. System.out.println("Description:" + rs.getString("Descrip"));  
  
17. System.out.println("Price:" + rs.getDouble("Price"));  
  
18. System.out.println("Quantity:" + rs.getInt("Quantity"));  
  
19. }  
  
20. } catch (SQLException se) {  
  
21. System.out.println("Error");  
  
22. }
```

Assume that:

The required database driver is configured in the classpath.

The appropriate database is accessible with the dbURL, userName, and passWord exists.

The SQL query is valid.

What is the result?

- A. An exception is thrown at runtime.
- B. Compilation fails.
- C. The code prints Error.
- D. The code prints information about Item 110.

Answer: C

10. Given the definition of the Country class:

```
public class country {  
  
    public enum Continent {ASIA, EUROPE}  
  
    String name;  
  
    Continent region;  
  
    public Country (String na, Continent reg) {  
  
        name = na, region = reg;  
  
    }  
  
    public String getName () {return name;}  
  
    public Continent getRegion () {return region;}  
  
}
```

and the code fragment:

```
List<Country> couList = Arrays.asList (  
  
    new Country ("Japan", Country.Continent.ASIA),  
  
    new Country ("Italy", Country.Continent.EUROPE),  
  
    new Country ("Germany", Country.Continent.EUROPE));  
  
Map<Country.Continent, List> regionNames = couList.stream ()  
  
    .collect(Collectors.groupingBy (Country ::getRegion,  
  
    Collectors.mapping(Country::getName, Collectors.toList())));  
  
System.out.println(regionNames);
```

What is the output?

- A. {EUROPE = [Italy, Germany], ASIA = [Japan]}
- B. {ASIA = [Japan], EUROPE = [Italy, Germany]}
- C. {EUROPE = [Germany, Italy], ASIA = [Japan]}
- D. {EUROPE = [Germany], EUROPE = [Italy], ASIA = [Japan]}

Answer: A

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