

# 310-065

## SUN

### *Sun Certified Programmer for the Java 2 Platform.SE 6.0*

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**QUESTION: 1**

Given:

```

2. public class Threads2 implements Runnable {
3.
4.     public void run() {
5.         System.out.println("run.");
6.         throw new RuntimeException("Problem");
7.     }
8.     public static void main(String[] args) {
9.         Thread t = new Thread(new Threads2());
10.        t.start();
11.        System.out.println("End of method.");
12.    }
13.}

```

Which two can be results? (Choose two.)

- A. java.lang.RuntimeException: Problem
- B. run.
- java.lang.RuntimeException: Problem
- C. End of method. java.lang.RuntimeException: Problem
- D. End of method.
- run.
- java.lang.RuntimeException: Problem
- E. run.
- java.lang.RuntimeException: Problem
- End of method.

**Answer:** D, E**Explanation:**

```

End of method.
run.
Exception in thread "Thread-0" java.lang.RuntimeException: Problem
    at Threads2.run(Threads2.java:5)
    at java.lang.Thread.run(Unknown Source)

```

**QUESTION: 2**

Which two statements are true? (Choose two.)

- A. It is possible for more than two threads to deadlock at once.
- B. The JVM implementation guarantees that multiple threads cannot enter into a deadlocked state.
- C. Deadlocked threads release once their sleep() method's sleep duration has expired.

- D. Deadlocking can occur only when the wait(), notify(), and notifyAll() methods are used incorrectly.
- E. It is possible for a single-threaded application to deadlock if synchronized blocks are used incorrectly.
- F. If a piece of code is capable of deadlocking, you cannot eliminate the possibility of deadlocking by inserting invocations of Thread.yield().

**Answer:** A, F

**QUESTION: 3**

Given:

```
void waitForSignal() {
    Object obj = new Object();
    synchronized (Thread.currentThread()) {
        obj.wait();
        obj.notify();
    }
}
```

Which statement is true?

- A. This code can throw an InterruptedException.
- B. This code can throw an IllegalMonitorStateException.
- C. This code can throw a TimeoutException after ten minutes.
- D. Reversing the order of obj.wait() and obj.notify() might cause this method to complete normally.
- E. A call to notify() or notifyAll() from another thread might cause this method to complete normally.
- F. This code does NOT compile unless "obj.wait()" is replaced with "(Thread) obj.wait()".

**Answer:** B

**Explanation:**

Threads2.java:15: unreported exception java.lang.InterruptedException; must be caught or declared to be thrown

```
obj.wait();
^
```

1 error

La respuesta que aparece antes de la correccion era "This code can throw an IllegalMonitorStateException."

pero las excepciones `IllegalMonitorStateException` se usan

**QUESTION: 4**

Click the Exhibit button.

What is the output if the `main()` method is run?

```
1 . public class Starter extends Thread {
2 . private int x = 2;
3 . public static void main(String[] args) throws Exception {
4 . new Starter().makeItSo();
5 . }
6 . public Starter(){
7 . x = 5;
8 . start();
9 . }
10 . public void makeItSo() throws Exception {
11 . join();
12 . x = x - 1;
13 . System.out.println(x);
14 . }
15 . public void run() { x *= 2; }
16 . }
```

- A. 4
- B. 5
- C. 8
- D. 9
- E. Compilation fails.
- F. An exception is thrown at runtime.
- G. It is impossible to determine for certain.

**Answer: D**

**QUESTION: 5**

Given:

```
1 . class PingPong2 {
2 . synchronized void hit(long n) {
3 . for(int i = 1; i < 3; i++)
4 . System.out.print(n + "-" + i + " ");
5 . }
```

```

6. }
1 . public class Tester implements Runnable {
2 . static PingPong2 pp2 = new PingPong2();
3 . public static void main(String[] args) {
4 . new Thread(new Tester()).start();
5 . new Thread(new Tester()).start();
6 . }
7 . public void run() { pp2.hit(Thread.currentThread().getId()); }
8 . }

```

Which statement is true?

- A. The output could be 5-1 6-1 6-2 5-2
- B. The output could be 6-1 6-2 5-1 5-2
- C. The output could be 6-1 5-2 6-2 5-1
- D. The output could be 6-1 6-2 5-1 7-1

**Answer: B**

La respuesta se obtiene es por la secuencia del segundo numero  
n-1 n-2 n-1 n-2

**QUESTION: 6**

Given:

```

1 . public class Threads4 {
2 . public static void main (String[] args) {
3 . new Threads4().go();
4 . }
5 . public void go() {
6 . Runnable r = new Runnable() {
7 . public void run() {
8 . System.out.print("foo");
9 . }
10 . };
11 . Thread t = new Thread(r);
12 . t.start();
13 . t.start();
14 . }
15 . }

```

What is the result?

- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. The code executes normally and prints "foo".
- D. The code executes normally, but nothing is printed.

**Answer:** B

```
fooException in thread "main" java.lang.IllegalThreadStateException
  at java.lang.Thread.start(Unknown Source)
  at p6.Threads4.go(Threads4.java:15)
  at p6.Threads4.main(Threads4.java:5)
```

**QUESTION:** 7

Given:

```
1 . public abstract class Shape {
2 . private int x;
3 . private int y;
4 . public abstract void draw();
5 . public void setAnchor(int x, int y) {
6 . this.x = x;
7 . this.y = y;
8 . }
9 . }
```

Which two classes use the Shape class correctly? (Choose two.)

- A. public class Circle implements Shape {  
private int radius;  
}
- B. public abstract class Circle extends Shape {  
private int radius;  
}
- C. public class Circle extends Shape {  
private int radius;  
public void draw();  
}
- D. public abstract class Circle implements Shape {  
private int radius;  
public void draw();  
}
- E. public class Circle extends Shape {  
private int radius;

```

public void draw() { /* code here */
}
F. public abstract class Circle implements Shape {
private int radius;
public void draw() { /* code here */
}

```

**Answer:** B, E

### QUESTION: 8

Given:

```

1 . public class Barn {
2 . public static void main(String[] args) {
3 . new Barn().go("hi", 1);
4 . new Barn().go("hi", "world", 2);
5 . }
6 . public void go(String... y, int x) {
7 . System.out.print(y[y.length - 1] + " ");
8 . }
9 . }

```

What is the result?

- A. hi hi
- B. hi world
- C. world world
- D. Compilation fails.
- E. An exception is thrown at runtime.

**Answer:** D

The method `go(String[], int)` in the type `Barn` is not applicable for the arguments `(String, int)`. The variable argument type `String` of the method `go` must be the last parameter.

### QUESTION: 9

Given:

```

1. class Nav{
2. public enum Direction { NORTH, SOUTH, EAST, WEST }
3. }
1. public class Sprite{

```

```
2. // insert code here
3. }
```

Which code, inserted at line 14, allows the Sprite class to compile?

- A. Direction d = NORTH;
- B. Nav.Direction d = NORTH;
- C. Direction d = Direction.NORTH;
- D. Nav.Direction d = Nav.Direction.NORTH;

**Answer:** D

**QUESTION:** 10

Click the Exhibit button.

Which statement is true about the classes and interfaces in the exhibit?

```
1. public interface A {
2.     public void doSomething(String thing);
3. }
1. public class AImpl implements A {
2.     public void doSomething(String msg) {}
3. }
1. public class B {
2.     public A doit(){
3. //more code here
4. }
5. public String execute(){
6. //more code here
7. }
8. }
1. public class C extends B {
2.     public AImpl doit(){
3. //more code here
4. }
5.
6. public Object execute() {
7. //more code here
8. }
9. }
```

- A. Compilation will succeed for all classes and interfaces.



- B. Compilation of class C will fail because of an error in line 2.
- C. Compilation of class C will fail because of an error in line 6.
- D. Compilation of class AImpl will fail because of an error in line 2.

**Answer: C**

The return type is incompatible with B.execute()

**QUESTION: 11**

Click the Exhibit button. What is the result?

```

11 . public class Person {
12 .   String name = "No name";
13 .   public Person(String nm) { name = nm; }
14 . }
15 .
16 . public class Employee extends Person {
17 .   String empID = "0000";
18 .   public Employee(String id) { empID = id; }
19 . }
20 .
21 . public class EmployeeTest {
22 .   public static void main(String[] args){
23 .     Employee e = new Employee("4321");
24 .     System.out.println(e.empID);
25 .   }
26 . }

```

- A. 4321
- B. 0000
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error in line 18.

**Answer: D**

Implicit super constructor Person() is undefined. Must explicitly invoke another constructor

**QUESTION: 12**

Given:

```

1. public class Rainbow {
2. public enum MyColor {

```

```

3. RED(0xff0000), GREEN(0x00ff00), BLUE(0x0000ff);
4. private final int rgb;
5. MyColor(int rgb) { this.rgb = rgb; }
6. public int getRGB() { return rgb; }
7. };
8. public static void main(String[] args) {
9. //insert code here
10. }
11. }

```

Which code fragment, inserted at line 19, allows the Rainbow class to compile?

- A. MyColor skyColor = BLUE;
- B. MyColor treeColor = MyColor.GREEN;
- C. if(RED.getRGB() < BLUE.getRGB()) { }
- D. Compilation fails due to other error(s) in the code.
- E. MyColor purple = new MyColor(0xff00ff);
- F. MyColor purple = MyColor.BLUE + MyColor.RED;

**Answer: B**

**QUESTION: 13**

Given:

```

1. public class Mud {
2. //insert code here
3. System.out.println("hi");
4. }
5. }

```

And the following five fragments:

```

public static void main(String...a) { public static void main(String.* a) { public static void
main(String... a) { public static void main(String[...] a) { public static void main(String...[] a) {
How many of the code fragments, inserted independently at line 2, compile?

```

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4
- F. 5

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