



310-065

Sun Certified Programmer for the Java 2 Platform. SE6.0

Q&A

DEMO Version

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QUESTION 1

Given:

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

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: DE

Explanation/Reference:

Answer:

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().
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Answer: AF

Explanation/Reference:

Answer:

QUESTION 3

Given:

```
7. void waitForSignal() {
```

```
8. Object obj = new Object();
9. synchronized (Thread.currentThread()) {
10. obj.wait();
11. obj.notify();
12. }
13. }
```

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/Reference:

Answer:

QUESTION 4

Click the Exhibit button.

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

Given:

```
10. public class Starter extends Thread {
11.     private int x = 2;
12.     public static void main(String[] args)
throws Exception {
13.         new Starter().makeItSo();
14.     }
15.     public Starter() {
16.         x = 5;
17.         start();
18.     }
19.     public void makeItSo() throws
Exception {
20.         join();
21.         x = x - 1;
22.         System.out.println(x);
23.     }
24.     public void run() { x *= 2; }
25. }
```

- 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

Explanation/Reference:

Answer:

QUESTION 5

Given:

```
11. class PingPong2 {
12. synchronized void hit(long n) {
13. for(int i = 1; i < 3; i++)
14. System.out.print(n + "-" + i + " ");
15. }
16. }
17. public class Tester implements Runnable {
18. static PingPong2 pp2 = new PingPong2();
19. public static void main(String[] args) {
20. new Thread(new Tester()).start();
21. new Thread(new Tester()).start();
22. }
23. public void run() { pp2.hit(Thread.currentThread().getId()); }
24. }
```

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

Explanation/Reference:

Answer:

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

Explanation/Reference:

Answer:

QUESTION 7

Given:

```
11. public abstract class Shape {
12. private int x;
13. private int y;
14. public abstract void draw();
15. public void setAnchor(int x, int y) {
16. this.x = x;
17. this.y = y;
18. }
19. }
```

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;
    5 http://www.troytec.com
    public void draw() { /* code here */
}
```
- F.

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

Answer: BE

Explanation/Reference:

Answer:

QUESTION 8

Given:

```
11. public class Barn {
12. public static void main(String[] args) {
13. new Barn().go("hi", 1);
14. new Barn().go("hi", "world", 2);
15. }
16. public void go(String... y, int x) {
17. System.out.print(y[y.length - 1] + " ");
18. }
19. }
```

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

Explanation/Reference:

Answer:

QUESTION 9

Given:

```
10. class Nav{
11. public enum Direction { NORTH, SOUTH, EAST, WEST }
12. }
13. public class Sprite{
14. // insert code here
15. }
```

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;
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Answer: D

Explanation/Reference:

Answer:

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.
6.     public String execute() {
7.         // more code here
8.     }
9. }

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 Almpl will fail because of an error in line 2.

Answer: C

Explanation/Reference:

Answer:

QUESTION 11

Click the Exhibit button.

What is the result?

```
11. class Person {
12.     String name = "No name";
13.     public Person(String nm) { name = nm; }
14. }
15.
16. 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
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- C. An exception is thrown at runtime.
- D. Compilation fails because of an error in line 18.

Answer: D

Explanation/Reference: