

Inner Classes

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Q: 01 Given:

```
11. public class Test {  
12. public static void main(String [] args) {  
13. int x = 5;  
14. boolean b1 = true;  
15. boolean b2 = false;  
16.  
17. if ((x == 4) && !b2 )  
18. System.out.print("1 ");  
19. System.out.print("2 ");  
20. if ((b2 = true) && b1 )  
21. System.out.print("3 ");  
22. }  
23. }
```

What is the result?

- A. 2
- B. 3
- C. 1 2
- D. 2 3
- E. 1 2 3
- F. Compilation fails.
- G. An exception is thrown at runtime.

Answer: D

Q: 02 Given the command line java Pass2 and:

```
15. public class Pass2 {  
16. public void main(String [] args) {  
17. int x = 6;  
18. Pass2 p = new Pass2();  
19. p.doStuff(x);  
20. System.out.print(" main x = " + x);  
21. }  
22.  
23. void doStuff(int x) {  
24. System.out.print(" doStuff x = " + x++);  
25. }  
26. }
```

What is the result?

- A. Compilation fails.
- B. An exception is thrown at runtime.

- C. doStuff x = 6 main x = 6
- D. doStuff x = 6 main x = 7
- E. doStuff x = 7 main x = 6
- F. doStuff x = 7 main x = 7

Answer: B

Q: 03 Given:

```
13. public class Pass {  
14. public static void main(String [] args) {  
15. int x = 5;  
16. Pass p = new Pass();  
17. p.doStuff(x);  
18. System.out.print(" main x = " + x);  
19. }  
20.  
21. void doStuff(int x) {  
22. System.out.print(" doStuff x = " + x++);  
23. }  
24. }
```

What is the result?

- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. doStuff x = 6 main x = 6
- D. doStuff x = 5 main x = 5
- E. doStuff x = 5 main x = 6
- F. doStuff x = 6 main x = 5

Answer: D

Question: 04

Given:

```
42. public class ClassA {  
43. public int getValue() {  
44.int value=0;  
45. boolean setting = true;  
46. String title="Hello";  
47. if (value || (setting && title == "Hello")) { return 1; }  
48. if (value == 1 & title.equals("Hello")) { return 2; }  
49. }  
50. }
```

And:

```
70. ClassA a = new ClassA();  
71. a.getValue();
```

What is the result?

- A. 1

- B. 2
- C. Compilation fails.
- D. The code runs with no output.
- E. An exception is thrown at runtime.

Answer: C

5. Given:

```
class Hexy {
public static void main(String[] args) {
Integer i = 42;
String s = (i<40)?"life":(i>50)?"universe":"everything";
System.out.println(s);
}}
```

What is the result?

- A. null
- B. life
- C. universe
- D. everything
- E. Compilation fails.
- F. An exception is thrown at runtime.

Answer:

-> **D** is correct. This is a ternary nested in a ternary with a little unboxing thrown in.

Both of the ternary expressions are false.

-> **A, B, C, E,** and **F** are incorrect based on the above.

6. Given:

```
1. class Example {
2. public static void main(String[] args) {
3. Short s = 15;
4. Boolean b;
5. // insert code here
6. }
7. }
```

Which, inserted independently at line 5, will compile? (Choose all that apply.)

- A. b = (Number instanceof s);
- B. b = (s instanceof Short);
- C. b = s instanceof (Short);
- D. b = (s instanceof Number);
- E. b = s instanceof (Object);
- F. b = (s instanceof String);

Answer:

-> **B** and **D** correctly use boxing and instanceof together.

-> **A** is incorrect because the operands are reversed. **C** and **E** use incorrect instance of syntax.

F is wrong because Short isn't in the same inheritance tree as String.

