

## ***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.