

BJP5 Self-Check 4.8: ScannerLogicError

Language/Type: [Java errors if/else input Scanner](#)

Author: Marty Stepp (on 2019/09/19)

The following code contains a logic error. Examine the code and figure out the case(s) in which the code would print something that is untrue about the number that was entered. Then correct the logic error in the code. You should retain the original printed messages (and not add any new ones), but make them print at appropriate times such that the message printed is always a true statement about the integer typed.


 Revert

Type your solution here:

```
1 Scanner console = new Scanner(System.in);
2 System.out.print("Type a number: ");
3 int number = console.nextInt();
4 if (number % 2 == 0) {
5     if (number % 3 == 0) {
6         System.out.println("Divisible by 6.");
7     }
8 }
9 else {
10     System.out.println("Odd.");
11 }
```

This problem asks for **bare code**. Submit a fragment of Java code as described. Do not write any class or method heading around your code; just write the lines of code that will produce the result described.

 4 Indent

 Submit

☒ Sound F/X
☒ Highlighting

✔ You passed 6 of 6 tests.

[Go to the next problem: favoriteColor](#)

test #1: test1
console output: Type a number: 12 Divisible by 6.
result: ✔ pass

test #2: test2

BJP5 Self-Check 4.5: ifElseMystery1

Language/Type: [Java](#) [if/else](#) [method basics](#) [mystery](#)

Author: Roy McElmurry (on 2019/09/19)

Consider the following method.

```
public static void ifElseMystery1(int x, int y) {  
    int z = 4;  
    if (z <= x) {  
        z = x + 1;  
    } else {  
        z = z + 9;  
    }  
    if (z <= y) {  
        y++;  
    }  
    System.out.println(z + " " + y);  
}
```

For each call below, indicate what output is produced.

ifElseMystery1(3, 20);	<input type="text" value="13 21"/>
ifElseMystery1(4, 5);	<input type="text" value="5 6"/>
ifElseMystery1(5, 5);	<input type="text" value="6 5"/>
ifElseMystery1(6, 10);	<input type="text" value="7 11"/>

 Submit

✔ You passed 4 of 4 tests.

[Go to the next problem: ifElseMystery2](#)

#	question	your answer	result
1	ifElseMystery1(3, 20);	13 21	✔ pass
2	ifElseMystery1(4, 5);	5 6	✔ pass

○ BJP5 Self-Check 4.6: ifElseMystery2

Language/Type:  Java [if/else method basics](#) [mystery](#)


Author: Roy McElmurry (on 2019/09/19)

Consider the following method.

```
public static void ifElseMystery2(int a, int b) {  
    if (a * 2 < b) {  
        a = a * 3;  
    }  
    if (b < a) {  
        b++;  
    } else {  
        a--;  
    }  
    System.out.println(a + " " + b);  
}
```

For each call below, indicate what output is produced.

ifElseMystery2(10, 2);	<input type="text" value="10 3"/>
ifElseMystery2(3, 8);	<input type="text" value="9 9"/>
ifElseMystery2(4, 4);	<input type="text" value="3 4"/>
ifElseMystery2(10, 30);	<input type="text" value="29 30"/>

 Submit

✔ You passed 4 of 4 tests.

[Go to the next problem: evenOdd](#)

#	question	your answer	result
1	ifElseMystery2(10, 2);	10 3	✔ pass
2	ifElseMystery2(3, 8);	9 9	✔ pass