



COURSE	<i>Computer Science : Programming with a Purpose</i>
LESSON	<i>Conditionals and Loops</i>
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MODULE 02 - GRADED ASSIGNMENT

1. What does the following program print?

```
public static void main(String[] args)
{
    int a = 2;
    int b = 3;
    int c = 4;
    if (a < b)
    {
        if (b < c)
        {
            if (c < a) System.out.println(a + " " + b + " " + c);
            else System.out.println(c + " " + b + " " + a);
        }
        else System.out.println(a + " " + c + " " + b);
    }
    else System.out.println(b + " " + a + " " + c);
}
```

- 234
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- 423
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2. Which of the following will lead to a compile-time error? Mark all that apply.

☒ `if (a > b) c = 0 else b = 0;`

☒ `if a > b { c = 0; }`

☒ `if (a > b) then c = 0;`

☐ `if (a > b) { c = 0; }`

☒ `if a > b, then c = 0;`

☒ `if (a > b) (c = 0;)`

☐ `if (a > b) c = 0;`

3. Which of the following errors will be detected at compile time? Mark all that apply.

• Missing semicolon at the end of a statement

• Missing left curly brace

• Missing curly braces around a sequence of statements in a while loop

• Division by a variable that might be zero

• Forgetting to declare the type of a variable

• Trying to subtract two strings

4. What does this statement print?

```
int n = 123456789;
int m = 0;
while (n != 0)
{
    m = (10 * m) + (n % 10);
    n = n / 10;
}
```

>>> 987654321



5. Suppose that *i* and *j* are both of type *int*. What is the value of *j* after the following statement is executed?

```
for (i = 0, j = 0; i < 10; i++)  
    j += i;
```

>>> 4

