

CSE 121 – Lesson 7

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Spring 2023

Music: [121 23sp Lecture Vibes](#) 



TAs:

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<i>Jacqueline</i>	<i>Jonus</i>	<i>Joshua</i>	<i>Kai</i>
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Announcements, Reminders

- Programming Assignment 1 is out, due Tues April 25
 - Start early!
 - [Math Problems case study video walkthrough](#) posted
- Resubmission Cycle 1 released yesterday, due Thurs April 27
- Quiz 0
 - Plan is to release grades tonight!
 - First opportunity for Quiz 0 Retakes will be Tuesday, April 25
(Retake details and form released tonight)

(PCM) Parameters

A value passed to a method by its caller

```
public static void myMethod(int num) {  
    System.out.print(num + " is the best!");  
    ...  
}
```

Calling a method with a parameter...

```
myMethod(42);
```

(Review) Scope

- The part of a program where a variable exists.
 - From its declaration to the end of the { } braces
 - Ex: a variable declared in a for loop only exists in that loop
 - Ex: a variable declared in a method exists only in that method

```
public static void example() {  
    System.out.println("hello");  
    int x = 3;  
    for (int i = 1; i <= 10; i++) {  
        System.out.println(x);  
    }  
}
```

i's scope { }

x's scope { }

Poll in with your answer!



What will be the last line of output after this code has executed?

```
public static void main(String[] args) {  
    int count = 5;  
    line(count);  
    System.out.println("count is: " + count);  
}
```

```
public static void line(int count) {  
    for (int i = 1; i <= count; i++) {  
        System.out.print("*");  
    }  
    count++;  
    System.out.println();  
}
```

A. count is: 5

B. count is: 6

C. count is: 1

D. I'm lost

```
public class Scope {  
    public static void main(String[] args) {  
        - int val = 1;  
        - mOne(val); // Prints "One: 1"  
        - val = -1;  
        - mTwo(val); // Prints "Two: -2"  
        - mThree(val); // Prints "One: -1"  
        // "Three: 2"  
    }  
}
```



```
// Method mOne()  
public static void mOne(int val) {  
    System.out.println("One: " + val);  
}
```



```
// Method mTwo()  
public static void mTwo(int val) {  
    val = val * 2;  
    System.out.println("Two: " + val);  
}
```



```
// Method mThree()  
public static void mThree(int val) {  
    mOne(val);  
    val = val + 3;  
    System.out.println("Three: " + val);  
}
```



Output:

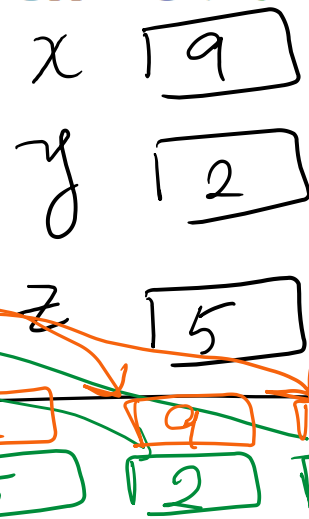
One: 1
Two: -2
One: -1
Three: 2

Poll in with your answer!



What is the output of this program?

```
public class ParameterMystery {  
    public static void main(String[] args) {  
        int x = 9;  
        int y = 2;  
        int z = 5;  
  
        mystery(z, y, x);  
        mystery(y, x, z);  
    }  
  
    public static void mystery(int x, int z, int y) {  
        System.out.println(z + " and " + (y - x));  
    }  
}
```



A. 2 and 4
9 and 3

B. 5 and -7
5 and -7

C. 9 and -3
5 and -7

D. I'm lost

Output:
2 and 4
9 and 3