LEC 07

CSE 121

Methods, Parameters, Scope Day 2

Questions during Class?

Raise hand or send here

sli.do #cse121

BEFORE WE START

Talk to your neighbors:

What are your weekend plans?

Music: ♣ CSE 121 25su Lecture Tunes ♣

Instructor: Hannah Swoffer

TAs: Abby, Hannah, Julia, Merav, Trey

Agenda

- **Announcements, Reminders** ⬅
- Revisiting Methods, Parameters, and Class Constants
- Code Example(s)!

Announcements, Reminders

- P1 is out, due next Tuesday, July 22nd
  - Start early – this one is tough!
- R2 released, due next Tuesday, July 22nd
- Quiz 0 was yesterday!
  - Grades will be out before Quiz 1
  - Please come to my office hours if you would like your cheat sheet back

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- **Revisiting Methods, Parameters, and Class Constants** ⟵
- Code Example(s)!

Last Time: Methods

Writing our own **methods** allows us to define our own commands!

(naming conventions for methods are same as variables: `camelCased`)

```
public static void myMethod() {
  /***
  Your code here
  **/
}
```

Last Time: Parameters

Definition: a value passed to a method by its caller. “Like” a variable!

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

Calling a method with a parameter…

```
myMethod("Laufey"); // prints: Laufey is the best!
```

Last Time: Class Constants

A fixed value visible (in-scope) to the whole program (the entire ***class***).

Value is set at declaration, **cannot** be reassigned – value is ***constant***.

```
public static final type NAME_OF_CONSTANT = expression;
```

Practice: Think

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```
public static final int COUNT = 7;

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

What will be the **last line of output** from this code?

A. `count is: 1`

B. `count is: 5`

C. `count is: 6`

D. `count is: 7`

Practice: Pair

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```
public static final int COUNT = 7;

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

What will be the **last line of output** from this code?

A. `count is: 1`

B. `count is: 5`

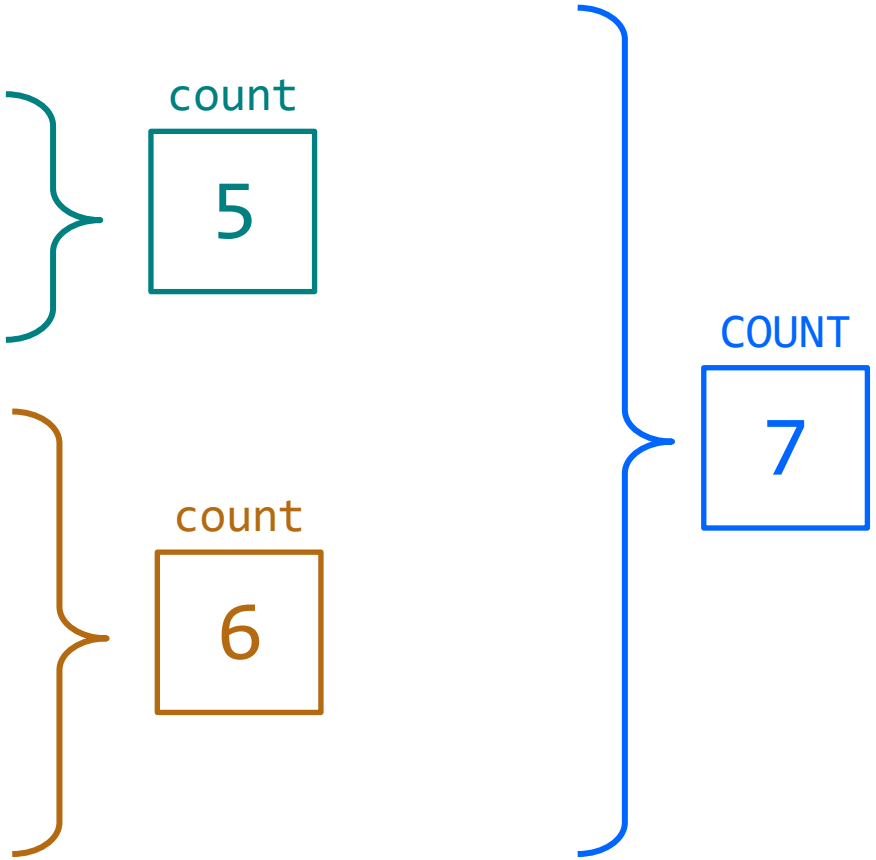
C. `count is: 6`

D. `count is: 7`

Walkthrough: Counting Counts

```
public static final int COUNT = 7;
public static void main(String[] args) {
  int count = 5;
  line(count);
  System.out.println("COUNT is: " + 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();
}
```



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