CSE 121 – Lesson 6

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sli.do #cse121

Music: <u>121 23sp Lecture Vibes</u>

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Announcements, Reminders

- Programming Assignment 1 will be released later today
 - Due Tuesday, April 25
- Resubmission Cycle 1 will be released tomorrow, due Thurs April 27
- Feedback released tomorrow for
 - Programming Assignment 0
 - Resubmission Cycle 0
- Quiz 0: tomorrow, April 20 during section

Last Time

- Nested for loops
 - Syntax & conventions: (i, j, k)
 - Applications
- Random
 - nextInt(int max): returns random int value [0, max)
 i.e. between 0 and max-1



(PCM) Methods

Writing our own *methods* allow us to define our own statements / commands in Java!

Naming conventions for methods are the same as variables: camelCased

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



public class MyClass {

glad();

welcome(); hello(); welcome();

public static void hello() {

public static void goodbye() {

public static void welcome() {

public static void glad() {

System.out.println("Hello!");

System.out.println("Goodbye.");

System.out.println("Welcome!!");

System.out.println("Glad you're here.");

public static void main(String[] args) {

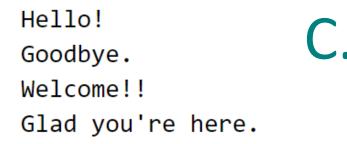
What is the output of this program?

Poll in with your answer!

Hello!

Welcome!!

Glad you're here.



```
welcome
hello
welcome
glad
```

Welcome!! D. Hello! Welcome!! Glad you're here.



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);
        }
        X's scope
    }
}</pre>
```





Class Constants

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

• Value can be set only at declaration; cannot be reassigned (so the value is *constant*)

public static final type NAME_OF_CONSTANT = expression;

