

# Lesson 8

Review



## Warmup Coding Bat Questions

Logic - 2: roundSum, closeFar

String - 2: repeatEnd, repeatFront, repeatSeparator

AP - 1: scoresIncreasing

Array - 1: maxEnd3



#### Variables Review

- A piece of memory that can contain data
- Each variable has a data type that determines what can be stored in it
- Primitive Variables: The most common types of variables, stores simple information
  - Types include boolean, byte, char, short, int, long, float, double



- A variable type that is a collection of characters
  - Not primitive

CODING POW.

- .length() returns the length of the string
- .equals() checks if two strings are equal
- .indexOf() returns the index where the substring is found & -1 if not found
  - Index starts at 0
- .substring() returns the string from the starting index to the ending index (if present)



## Logic Review

• Relational operators are symbols that compare the value of two numbers

Includes ==, !=, >=, <=, >, and

- Logical operators compare boolean values. Some examples are && (and), || (or), and ! (not)
- If and else statements can execute code if a certain condition is true
- For loops repeatedly run statements a certain number of times



#### **Methods Review**

- A group of code that performs a certain action
- Method headers are in the format: access modifier, return type, method name (parameters)
  - Types of access modifiers include public and private
  - Parameters are values that are passed into the function
  - Return type indicate what will be returned from the method call
  - Methods are called like so: methodName (parameter);
  - Main method is a special method in the form public static void main (String [] args) {} used to call methods.



#### **Array Review**

- An array is a list of elements
  - o Declaration:(type)[] (name) = new
     (type)[size];
- There are two ways to store a value in an array
  - o Ex:int[] list = new int[5];

int number = 2;

o list[0] = number;



• Similar to arrays, but have adjustable lengths

CODING POW

- o Declaration:ArrayList<String> newArr = new
  ArrayList<String>();
- ArrayList methods include .add(), .contains(),
  - .get(), .indexOf(), .lastIndexOf(),
  - .size(), .remove(), .set() and .subList();
- ArrayList is part of the java.util package. To use ArrayLists, you have to import the ArrayList class using the command import java.util.ArrayList;





Go to gimkit.com/play and join the game:

This is like a cumulative final ;)

Final (CP103 L4)





Thank you so much for taking this class!

Please fill this form before class ends, and I hope you enjoyed your experience here.

https://forms.gle/D9R7nnqGQ3VMTZAG8



# Questions?

Contact us here:

Email: <u>codingpower101@gmail.com</u> Website: <u>codingpower.org</u>