

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

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- .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

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- 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:

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