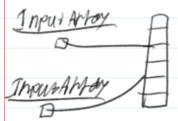
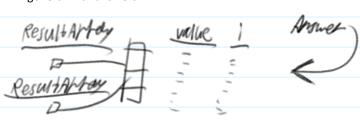
Week2-3

Wednesday, September 6, 2023 11:54 AM

NOTE: Map memory also includes showing output

Be very specific when showing mapped memory. Lost points because of being too general with answers.





NOTE: Practice writing code, do one required practice problem per week.

Take a coding problem, and solve it.

Then come back later after some time and solve it again.

The idea is to have the code syntax to come without thinking.

String s = new String("hello");

Which is the same thing as

String s = "hello";

Strings are immutable, they can't be changed.

String's length() function needs parantheses because they are parameters to a function of class String.

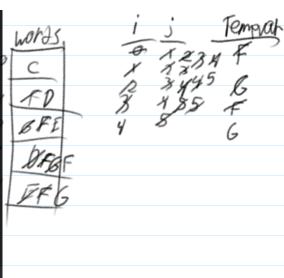
Array's don't have a function, their length; command is a property of it.

NOTE: Do more string practice later, since we barely remember all the string commands.

Shallow copy and deep copy:

A shallow copy is when a new variable points to the same address as the variable it's copying.

A deep copy is when a copy of the data within the address is made to a different variable.



Very important question from interviews to remember the answer for: What is encapsulation and why is it important? Data/member variables/member instances
methods/member functions Encapsulation is the method in which tata is protected from inside and outside sources. Almost all variables in this course will be private. Constructor: Method that is automatically called when an object is instantiated. - Default: No parameters Mutator/Setter: Allow changes to member variables Accessor/Getter: Retrieves the contents of the member variables. Public class Dog{ All member variables have a keyword called "this". Private String name; Using "this" means you will specialize the member variable instead of a different Private String breed; variable with the same name. Public Dog(){ name=""; breed=""; Header of the function is the signature. The signature is the name, parameters, Public Dog(Stringp_name,Stringp_breed){ and return type. name=p_name; breed=p_breed; Public String getName(){ Return name; Public void setName(Stringp_name){ name=p_name; Public String getBreed(){ Return breed; Public void setBreed(Stringp_breed){ breed=p_breed; "Any time you use the new command, it's heap storage. Everything else, usually variables, is stack storage." This class is called a "tangible thing." public class Main { public static void main(String[] args) throws IOException { ArrayList<Dog> stuff = new ArrayList<Dog>(); SLibtzu/n

l-age

- -Container: Anything that can hold multiple pieces of data. Things to remember: It is bad design to pass around a container into different objects. Making an array So never parameterize or return a container like an ArrayList. Making an arraylist Creating a new class This means that constructors will be different in classes that function as a Reading into a new file container. Creating and writing into a new file Containers don't use set/gets, usually more like: Parsing string Add, remove, find, modify. Converting string to int Input and output should also not be used in the container classes. Converting int to string How to use Scanner Those search algorithms at the sem start will be a very big part of the exam. So study them for the exam next Friday! HW is posted: Will be writing a morse code assignment Class MorseLetter (converts to morse) - Two member variables - Character, string. Class MorseCode - Array of morse. NOT ARRAYLIST. Only 26.