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1. Types

* 5.0/2 = 2.5
* 10 % 3 = the remainder of 10 % 3 is 1
* 3 / 3 + 5 \* 3 = 16
* 2 /3 = 0.666
* True || false | true or false
* “Comp” + “Sci” adding two strings together or
* “10” + “-1” =
* “Belcalis Marlenis Almanzar”.charAt(2) = its looking for the third letter in the string which will be “ l ”
* String elem = “hydrogen”;  elem.length(); its asking for the length of the string which will be 7 because its starts with 0

1. Conditions

* What does this code snippet print?

The snippet prints the prices of the flavor which price gets printed depends on the flavor.

* What would the price be if the flavor was strawberry?

The price would be 3.99

* What is the price for pistachio?

Its not on the snippet but it would fit the default price of 0.0

1. Write a condition that is only true if an integer, x, is divisible by 4 or 7.

If (int x % 4 || int x % 7)

return true;

else

return false;

1. Are these two code snippets different? Why or why not?

Both of the snippets are the same in the outcome but are different on how the code was written

1. Create a for loop that prints the cubes(x^3) of all integers from -10 to 10

import java.util.ArrayList;

class Example

{

public static void main (String[] args) throws java.lang.Exception

{

//declare array of size 10 of type integer

//and initialize the array

int [] array = new int[] {1,2,3,4,5,6,7,8,9,10};

System.out.println("Integer Array");

for(int i = 0; i<array.length ; i++) { //loop through the array

System.out.println("Element at index " + i + " = "+ array[i]);

}

//declare string array of size 10

String[] str\_array = new String[] {"This","is","an","example","java","program","for",

"learning","arrays","."};

System.out.println("\nString Array");

for(int i = 0; i<str\_array.length ; i++) {

System.out.println("Element at index " + i + " = "+ str\_array[i]);

}

ArrayList<Integer> array\_list = new ArrayList<Integer>(); //creates an empty array list

for(int i = 0; i<array.length ; i++) {

array\_list.add(array[i]); //add element at index i in array to array\_list

}

//print the arraylist

for (int i : array\_list) {

System.out.println(i);

}

}

}

1. What is the output of this snippet?

.1

.2

.3

.4

.5

1. Functions

Consider this function

-What is the return type?

The return type is the letter a, e, i, o, u and counts how many there were in the string

-What is the parameter type?

The parameter is the string

-What does it do?

It goes through a for loop which increments and add in the characters as it goes along

-What is the result of mysteryFn(“Woah, we’re half way there”)

It will be “oaeeaaee” which is a length of 7 in comp sci

-Is there a case that it does not solve correctly?

Yes, it is possible for there to not have anything at all or have a string that doesn’t have the characters

 public static void swap(int[] distances, int index1, int index2) {  
       // Variable to temporary hold a value  
       int temp = array[index1];

       // Set value at index1 to value at index2  
        array[index1] = array[index2];

       // Set value at index2 as temp  
       array[index2] = temp;  
    }

1. Write a snippet that writes the array backwards?

Public class ReverseArray {

Public static void main(String[] args){

char [] flags = {‘c’, ‘f’, ‘l’, ‘b’, ‘a’};

System.out.println(“Array in reverse order: “);

for(char flags = arr.length-1 >= 0; i--){

System.out.print(char[i] + “ ”);

}

}

1. Write code that prints the values in the 3rd row of this 2D array

Public static void main(String [] args){

Int i, j;

String[][] classroom = new String [10][5];

String[] data = {“Raju”, “Ravi”, “Abni”, “Rani”, “Teja”};

for( i = 0; i<10; i++){

if ( i==2)//third row{

for ( j=0; j<5; j++){

classroom[i][j] = data[j];

}

}

}

for( j=0; j<5; j++){

System.out.print(classroom[2][j] + “ “);

}

System.out.println();

1. Consider this code and the following snippet;