Array exercises (5 points) william wright

1. Write the contents of circle after this code has run: ​

double [] circle = { 3.141592653589793,314.1592653589793, 3.141592653589793,0.0}

1. Write the contents of array after this code has run

double [] array = {3.0,2.0,5.0,1.0}

1. Write the contents of myArray after this (useless) code has run

int [] myArray = {4, 9, 3, 5, 6, 2, 1};

1. What is the output of this (useless) code

The changed list is(4,5,6,10,11)

Number Array Lab Sum, Avg, Min, Max (10 points)

**import** java.util.Random;

**public** **class** ArrayCalculations {

//all edits where made from william wright ©A.R.C software

//declare the main method here

**public** **static** **void** main(String[] args) {

//here is the random generater named randomgenerator

Random randomGenerator = **new** Random();

//assign all of the ints used

//int for the sums

**int** sum=0;

//int for avarage

**int** avg=0;

//int for the smallest value

**int** smallest=500;

//int for the largest value

**int** biggest=0;

//assign a random int

**int** random=0;

//generate an array

**int**[] intarr = **new** **int**[20];

//make the array full of random numbers

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

intarr[i] = randomGenerator.nextInt(501);

}

//find the biggest number

**for** (**int** i2 = 0; i2<intarr.length;i2++){

**if** (intarr[i2]>biggest){

biggest = intarr[i2];

}

}

//find the smallest number

**for** (**int** i2 = 0; i2<intarr.length;i2++){

**if** (intarr[i2]<smallest){

smallest = intarr[i2];

}

}

//find the sum of everything

**for** (**int** i2 = 0; i2<intarr.length;i2++){

sum = sum+intarr[i2];

}

//find the avarge using the sum

avg = (sum/intarr.length);

//print all the numbers in the array

**for** (**int** i3 = 0; i3<intarr.length;i3++){

System.***out***.print(intarr[i3]+",");

}

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

//print the sum

System.***out***.println("the sum of the array is "+sum);

//print the avgerage

System.***out***.println("the avarage of the array is "+avg);

//print the biggest

System.***out***.println("the biggest number in the array is "+biggest);

//print the smallest

System.***out***.println("the smallest number in the array is "+smallest);

}

}

Run #1

292,110,381,240,244,248,287,456,226,300,13,485,445,144,456,466,0,220,494,310,

the sum of the array is 5817

the avarage of the array is 290

the biggest number in the array is 494

the smallest number in the array is 0

Run #2

61,374,131,179,17,158,424,292,195,324,405,214,402,50,1,123,313,144,442,136,

the sum of the array is 4385

the avarage of the array is 219

the biggest number in the array is 442

the smallest number in the array is 1

Run #3

345,6,257,326,437,446,218,446,484,309,334,399,121,29,334,475,379,337,475,295,

the sum of the array is 6452

the avarage of the array is 322

the biggest number in the array is 484

the smallest number in the array is 6

String Array Lab Harry Potter (10 points)

import java.util.Random;

import java.util.Scanner;

public class NameList {

public static void main(String[] args) {

//declare the random number

Random rand = new Random();

//asign a scanner

Scanner scan = new Scanner(System.in);

//asign the names to the names array

String[] names = new String[]{"Hermione","Harry","Ron","Dumbledore","Snape"};

//print the last element of names array

System.out.println(names[(names.length-1)]+" is the last name in the array");

//print the names backword

for (int i = (names.length-1); i>=0;i--){

//print the name

System.out.print(names[i]+" ");

//print the amount of charactors used

System.out.println(names[i].length());

}

//make the second array

String[] names2 = new String[]{names[0],names[1],names[2],names[3],names[4],"Dolores","Gilderoy","Nymphadora","Molly","Mad-Eye"};

//print a name at random

System.out.println(" ");

System.out.println(names2[(rand.nextInt(9) + 1)]+" is the random name selected");

System.out.println(" ");

//print the second array in a list

for (int i = 0; i<(names2.length);i++){

//print the name

System.out.print((i+1)+") "+names2[i]+" ");

//print the amount of characters used

System.out.println(names2[i].length());

}

//call the find avg class

System.out.println("the avarge lenth of the names are "+findavg(names2));

}

public static int findavg(String[] names) {

int sum = 0;

int avg = 0;

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

sum = sum+(names[i].length());

}

avg= sum/names.length;

return avg;

}

}

Snape is the last name in the array

Snape 5

Dumbledore 10

Ron 3

Harry 5

Hermione 8

Harry is the random name selected

1) Hermione 8

2) Harry 5

3) Ron 3

4) Dumbledore 10

5) Snape 5

6) Dolores 7

7) Gilderoy 8

8) Nymphadora 10

9) Molly 5

10) Mad-Eye 7

the avarge lenth of the names are 6

**public** **class** Student {

//declare all the varuables

//name

**private** String name;

//ID Number

**private** **int** idnumber;

//students GPA

**private** Double gpa;

**public** **static** **void** main(String[] args) {

//do i need a main here?

}

//the constructor for student

**public** Student (String name, **int** idnumber, **double** gpa) {

**this**.name = name;

**this**.idnumber = idnumber;

**this**.gpa = gpa;

}

//the get name accesser

**public** String getname() {

**return** **this**.name;

}

//get ID Number accesser

**public** **int** getidnumber() {

**return** **this**.idnumber;

}

//get GPA accesser

**public** Double getgpa(){

**return** **this**.gpa;

}

//prints everything

**public** String toString() {

**return** "Name: "+name+"\nID Number: "+idnumber+ "\nGPA: "+gpa;

}

}

**public** **class** StudentTester {

**public** **static** **void** main(String[] args) {

//assign all the users there states

Student s1 = **new** Student("william wright",1357310,3.6);

Student s2 = **new** Student("jack burke",1257555,3.5);

Student s3 = **new** Student("chris long",2543876,1.6);

Student s4 = **new** Student("moon coach",1357959,4.6);

Student s5 = **new** Student("carloss coach",4733789,2.6);

//print s1 all info

System.***out***.println(s1.toString());

//print the second persons ID

System.***out***.println(s2.getidnumber());

//print the third students name

System.***out***.println(s3.getname());

//print the fourth student GPA

System.***out***.println(s4.getgpa());

//print all students

System.***out***.println(s1.toString());

System.***out***.println(s2.toString());

System.***out***.println(s3.toString());

System.***out***.println(s4.toString());

System.***out***.println(s5.toString());

}

}

Name: william wright

ID Number: 1357310

GPA: 3.6

1257555

chris long

4.6

Name: william wright

ID Number: 1357310

GPA: 3.6

Name: jack burke

ID Number: 1257555

GPA: 3.5

Name: chris long

ID Number: 2543876

GPA: 1.6

Name: moon coach

ID Number: 1357959

GPA: 4.6

Name: carloss coach

ID Number: 4733789

GPA: 2.6