Client:

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package lab7;

/\*\*

\*

\* @author gawitt

\*/

public class Lab7Client {

public static void main(String[] args) {

Lab7Array a = new Lab7Array();

Lab7Array b = new Lab7Array();

Lab7Array c = new Lab7Array();

Lab7Array d = new Lab7Array();

//Object a method tests:

//\* a.display();

//\* a.displayWithIndex();

//\* test value a.changeArrayValue(2, -3);

a.changeArrayValue(4, -888);

a.displayWithIndex();

a.calcSum();

a.calcAvg();

//object b method tests:

b.setArrayWithRandom(1000);

b.displayWithIndex();

b.calcSum();

b.calcAvg();

//object c method tests:

c.setArrayWithInput();

c.display();

c.calcSum();

c.calcAvg();

//Object d method tests:

d.setArrayWithIndex();

d.displayWithIndex();

d.calcSum();

d.calcAvg();

}// main

}// Lab7client class

Lab7Array:

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\*/

package lab7;

/\*\*

\*

\* @author gawitt

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public class Lab7Array {

private int[] list = {1,3,4,5,2,6,8,9,2,7};

public void display(){

System.out.print("[ ");

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

System.out.println(list[i] + " ");

}//for

System.out.println("]");

}//display

public void displayWithIndex(){

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

System.out.println(list[i] + ": " + i);

}//for

}//displayWithIndex

public void changeArrayValue(int i, int number){

if(list[i] == i){

list[i] = number;

}//if

System.out.println(list[i] + ": " + number);

}//changeArrayValue

public void setArrayWithRandom(int size){

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

list[i] = (int) size \* (Math.random() + 1 );

}//for

}//setarrayWithRandom

public void setArrayWithInput(){

java.util.Scanner input = new java.util.Scanner(System.in);

System.out.println("Enter values for the array: ");

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

list[i] = input.nextInt();

}//for

}//setArrayWithInput

public void setArrayWithIndex(){

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

list[i] = i;

}//for

}//setArrayWithIndex

public int calcSum(){

int sum = 0;

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

sum += list[i];

}//for

return sum;

}//calcSum

public double calcAvg(){

double avg = calcSum() /list.length;

return avg;

}//calcAvg

public int getSmallest(){

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

if(list[i] >

}

}//getSmallest

}//class