public class HelloWorld {  
  
 public static void main(String[]args){  
 System.*out*.println("HelloWorld");  
 }  
 }

//

import java.util.Scanner;  
public class InputArrayElements {  
 public static void main(String[]args){  
 Scanner scanner=new Scanner(System.*in*);  
 System.*out*.println("input array elements");  
 int size =scanner.nextInt();  
 int[] array= new int[5];  
 System.*out*.println("input array elements");  
 for (int i = 0; i < 5; i++) {  
 array[i]=scanner.nextInt();{  
 System.*out*.println("elements array input");  
 for (int j = 0; j < 5; j++) {  
 System.*out*.println(array[i]);  
 }  
 }  
  
 }  
 }  
}

//

import java.util.Scanner;  
  
public class Method {  
 public static void mythod(String[] x) {  
 for (int i = 0; i < x.length; i++) {  
 System.*out*.println(i);  
 }  
 }  
  
 public static void main(String[] args) {  
 String[] name={"ola,ahlam"};  
 *mythod*(name);  
 }  
  
}  
//6  
  
  
class InputArrayMethod {  
 public static void main(String[] args) {  
 int[] numbers = *inputArray*();  
 *printArray*(numbers);  
 }  
  
 public static int[] inputArray() {  
  
  
 Scanner scanner = new Scanner(System.*in*);  
 System.*out*.print("Enter the size : ");  
  
 int size = scanner.nextInt();  
  
 int[] arry = new int[size];  
  
  
 System.*out*.println("Enter the elements :");  
 for (int i = 0; i < size; i++) {  
 arry[i] = scanner.nextInt();  
 }  
  
 return arry;  
 }  
  
 public static void printArray(int[] arr) {  
 for (int i = 0; i < arr.length; i++) {  
  
 System.*out*.println(arr[i]);  
 }  
 }  
}

//

public class Num7 {  
  
 String name;  
 int id;  
  
 public String getName() {  
 return name;  
 }  
  
 public int getId() {  
 return id;  
 }  
  
 public void setName(String name) {  
 this.name = name;  
 }  
  
 public void setId(int id) {  
 this.id = id;  
 }  
  
 @Override  
 public String toString() {  
 return "Num6{" +  
 "name='" + name + '\'' +  
 ", id=" + id +  
 '}';  
 }  
  
 public Num7(String name, int id) {  
 this.name = name;  
 this.id = id;  
  
  
  
 }  
  
}

//

public class PrintArrayElements {  
 public static void main(String[]args){  
 int[]array ={1,2,3,4,5};  
 for (int i = 0; i < array.length ; i++) {  
 System.*out*.println(array[i]);  
 }  
 }  
}

//

public class printNumbers {  
 public static void main(String[]args){  
 for (int i = 1; i <=10; i++) {  
 System.*out*.println(i);  
  
 }  
 }  
}

//

public class Q7 {  
 public static void main(String[] args) {  
 Num7 [] stu=new Num7[3];  
  
 stu[0]=new Num7 ("ahlam",6);  
 stu[1]=new Num7("ola",6);  
 stu[2]=new Num7("amat",9);  
 for (int i = 0; i <stu.length; i++) {  
 System.*out*.println(stu[i]); }  
 }  
}

//

import java.util.Scanner;  
  
public class R\_1\_1 {  
 public static void main(String[] args) {  
 *inputAllBaseTypes*();  
 }  
 public static void inputAllBaseTypes()  
 {  
  
 Scanner scanner=new Scanner(System.*in*);  
 System.*out*.println("Enter data of type int :");  
 int intValue=scanner.nextInt();  
 System.*out*.println("the int data that was entered"+intValue);  
  
 System.*out*.println("Enter data of type long :");  
 long longValue=scanner.nextLong();  
 System.*out*.println("the long data of that was entered"+longValue);  
  
 System.*out*.println("Enter data of type float");  
 float floatValue=scanner.nextFloat();  
 System.*out*.println("the float of that was entered"+floatValue);  
  
 System.*out*.println("Enter data of type double: ");  
 double doubleValue=scanner.nextDouble();  
 System.*out*.println("the double of that was entered"+doubleValue);  
  
 System.*out*.println("Enter data of type byte");  
 byte byteValue=scanner.nextByte();  
 System.*out*.println("the byte of that was entered"+byteValue);  
  
 System.*out*.println("Enter data of type short: ");  
 short shortValue=scanner.nextShort();  
 System.*out*.println("the short of the was entered"+shortValue);  
  
 System.*out*.println("Enter data of type cher:");  
 char charValue=scanner.next().charAt(0);  
 System.*out*.println("the char of the was entered"+charValue);  
  
 System.*out*.println("Enter data of type boolean: ");  
 boolean booleanValue=scanner.hasNextBoolean();  
 System.*out*.println("the boolean of the was entered"+booleanValue);  
 scanner.close();  
  
 }  
  
  
}

//

public class R\_1\_2 {  
 private int score;  
  
 public R\_1\_2(int score) {  
 this.score = score;  
 }  
  
 public int getScore() {  
 return score;  
 }  
  
 public void setScore(int score) {  
 this.score = score;  
 }  
  
 @Override  
 public String toString() {  
 return "R\_1\_2{" +  
 "score=" + score +  
 '}';  
 }  
  
 public static void main(String[] args) {  
 R\_1\_2[] A =new R\_1\_2[5];  
 for (int i = 0; i < A.length; i++) {  
 A[i] =new R\_1\_2(i\* 100);  
  
 }  
 R\_1\_2[] B =A.clone();  
 //يخزن b في a  
 A[4].setScore(550);  
 // SCORE..Aقمت اعين 550 الى [4]  
 int scoreInB;  
 scoreInB = B[4].getScore();  
 // SCORE.b قمت اعين 550 الى [4]  
 System.*out*.println("the score value is B[4] "+scoreInB);  
  
 }  
}

//

public class R\_1\_3 {  
 public static void main(String[] args) {  
 *isMultiple*(20,10);  
 System.*out*.println(*isMultiple*(5,10));  
 }  
 public static boolean isMultiple(long n,long m)  
 {  
 if(n%m==0)  
 return true;  
 else  
 return false;  
  
 }  
}

//

public class R\_1\_4 {  
 public static void main(String[] args) {  
 int number = 6;  
 System.*out*.println(*isEven*(number));  
 }  
 public static boolean isEven(int i)  
 {  
 if ((i&1)==0){  
 return true ;  
 }  
 return false;  
 }  
}

//

public class R\_1\_5 {  
 public static int sum(int a){  
 int total =0;  
 for (int i = 1; i <=a ; i++) {  
 total= total+i;  
  
 }  
 return total;  
 }  
  
 public static void main(String[] args) {  
 System.*out*.println(*sum*(7));  
 }  
}

//

public class R\_1\_6 {  
 public static void main(String[] args) {  
 int number =10;  
 System.*out*.println(*sumOfOddNumbers*(number));  
  
 }  
 public static int sumOfOddNumbers(int n){  
 int sum =0;  
 for (int i = 1; i <=n ; i+=2) {  
 sum+=i ;  
 }  
 return sum;  
 }  
}

//

public class R\_1\_7 {  
 public static void main(String[] args) {  
 int number =6;  
 System.*out*.println(*sumOfSquares*(number));  
 }  
 public static int sumOfSquares(int n) {  
 int sum = 0;  
 for (int i = 1; i <=n; i++) {  
 sum +=i\*i;  
 }  
 return sum;  
 }  
}

//

public class R\_1\_8 {  
 public static void main(String[] args) {  
 String str ="Hello,World!,Ahlam";  
 System.*out*.println(*countvowels*(str));  
 }  
 public static int countvowels(String str){  
 int count =0;  
 String vowels ="AoeuOEau";  
 for (int i = 0; i < str.length(); i++) {  
 char ch=str.charAt(i);  
 if (vowels.indexOf(ch) !=-1){  
 count++;  
 }  
  
 }  
 return count;  
 }  
}

//

public class R\_1\_9 {  
 public static void main(String[] args) {  
 String sentence = "Les's try Mike!";  
 String result = *removepunctuation*(sentence);  
 //استدعيتها وممرتهالاوخليتها تخزن من الطباعه  
 System.*out*.println(result);  
  
 }  
 public static String removepunctuation(String a){  
 StringBuilder builder =new StringBuilder(a);  
 for (int i = 0; i < builder.length(); i++) {  
 char h =builder.charAt(i);  
 if (! Character.*isLetterOrDigit*(h) && ! Character.*isWhitespace*(h)){  
 builder.deleteCharAt(i);  
 i--;  
 //فعلت ذي الزياده عشان اعوض عن حروف محذوفه  
  
 }  
  
 }  
 return builder.toString();  
 }  
}

//

public class R\_1\_10 { private String name;  
 private int numberOfpetals;  
 private float price;  
  
 public R\_1\_10(String name, int numberOfpetals, float price) {  
 this.name = name;  
 this.numberOfpetals = numberOfpetals;  
 this.price = price;  
 }  
  
 public void setName(String name) {  
 this.name = name;  
 }  
  
 public void setNumberOfpetals(int numberOfpetals) {  
 this.numberOfpetals = numberOfpetals;  
 }  
  
 public void setPrice(float price) {  
 this.price = price;  
 }  
  
 public String getName() {  
 return name;  
 }  
  
 public int getNumberOfpetals() {  
 return numberOfpetals;  
 }  
  
 public float getPrice() {  
 return price;  
 }  
  
 @Override  
 public String toString() {  
 return "R\_1\_10{" +  
 "name='" + name + '\'' +  
 ", numberOfpetals=" + numberOfpetals +  
 ", price=" + price +  
 '}';  
 }  
 //بسوي عشان اطلع نتيجه  
  
 public static void main(String[] args) {  
  
 R\_1\_10 rose =new R\_1\_10("rose",10,5.99f);  
  
 System.*out*.println(" rose's name:"+rose.getName());  
  
 System.*out*.println("number of pletals:"+rose.getNumberOfpetals());  
  
  
 System.*out*.println("the pice :" +rose.getPrice());  
  
 rose.setPrice(7.89f);  
  
 System.*out*.println("price after modification: "+rose.getPrice());  
  
 }  
}

//

public class R\_1\_11 {  
 private String bank;  
 private String customer;  
 private String account;  
 protected double balance;  
 private int limit;  
  
 public R\_1\_11(String bank, String customer, String account, double balance, int limit) {  
 this.bank = bank;  
 this.customer = customer;  
 this.account = account;  
 this.balance = balance;  
 this.limit = limit;  
 }  
  
 public void setLimit(int limit) {  
 this.limit = limit;  
 }  
  
 public int getLimit() {  
  
 return limit;  
 }  
 public boolean charge(double amount){  
 if (amount+balance> limit){  
 return false;  
  
 }  
 balance +=amount;  
 return true;  
 }  
 public void makepayment(double amount){  
 balance-=amount;  
  
  
  
 }  
  
 public static void main(String[] args) {  
 R\_1\_11 r111= new R\_1\_11("john Doe","Bank","123445678",5000,1000);  
 System.*out*.println("credit limit :"+ r111.getLimit());  
 r111.setLimit(6000);  
 System.*out*.println("Updated Credit Limit :" +r111.getLimit());  
 }  
}

//

public class R\_1\_12 {  
 private String bank;  
 private String customer;  
 private String account;  
 private double balance;  
 private int limit;  
  
 public R\_1\_12(String bank, String customer, String account, double balance, int limit) {  
 this.bank = bank;  
 this.customer = customer;  
 this.account = account;  
 this.balance = balance;  
 this.limit = limit;  
 }  
 public boolean charge(double amount){  
 if (amount<0){  
 return false;  
 }  
 if (amount+ balance >limit)  
 {  
 return false;  
 }  
 balance+=amount;  
 return true;  
 }  
 public void makePayment(double amount){  
 if ((amount<0)){  
 return;  
 }  
 balance-=amount;  
 }  
  
 public static void main(String[] args) {  
 R\_1\_11 r111= new R\_1\_11("john Doe","Bank","123445678",5000,1000);  
 System.*out*.println("Inital balance after charging : " +r111.balance);  
 r111.makepayment(-500);  
 System.*out*.println("Balance after invalid payment:"+r111.balance);  
  
 }  
}

//

public class R\_1\_13 {  
 private String bank;  
 private String customer;  
 private String account;  
 private double balance;  
 private int limit;  
  
 public R\_1\_13(String bank, String customer, String account, double balance, int limit) {  
 this.bank = bank;  
 this.customer = customer;  
 this.account = account;  
 this.balance = balance;  
 this.limit = limit;  
 }  
 public boolean charge(double amount){  
 if (amount<0){  
 return false;  
 }  
 if (amount+ balance >limit)  
 {  
 return false;  
 }  
 balance+=amount;  
 return true;  
 }  
 public void makePayment(double amount){  
 if ((amount<0)){  
 return;  
 }  
 balance-=amount;  
 }  
  
 public static void main(String[] args) {  
 R\_1\_13[] wallet= new R\_1\_13[3];  
  
 wallet[0]=new R\_1\_13("markaxe","Bank1","1234566",5000,1000);  
 wallet[1]=new R\_1\_13("markaxe 2","Bank1","1234566",3500,500);  
 wallet[2]=new R\_1\_13("markaxe 3","Bank1","1234566",2000,1500);  
 for (int val = 1; val <=16 ; val++) {  
 wallet[0].charge(val);  
 wallet[1].charge(2\*val);  
 wallet[2].charge(3\*val);  
 for (R\_1\_13 r113:wallet){  
 System.*out*.println("coustomer: "+r113.bank);  
 System.*out*.println("bank: "+r113.bank);  
 System.*out*.println("account: "+r113.bank);  
 System.*out*.println("balance: "+r113.bank);  
 System.*out*.println("credit limit: "+r113.limit);  
 System.*out*.println();  
  
  
  
 }  
  
 }  
  
 }  
  
}