1)checksum

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int n=s.nextInt();

int r=UserMainCode.checkSum(n);

if(r==1)

{

System.out.println("The sum of odd digits are odd");

}

else

{

System.out.println("The sum of odd digits are even");

}

s.close();

}

}

Usermaincode:

public class UserMainCode {

public static int checkSum(int n)

{

int n1; int sum=0; int r; while(n!=0)

{

n1=n%10;

if(n1%2!=0)

{

sum=sum+n1;

}

n=n/10;

}

if(sum%2==0)

{

r=-1;

}

else

{

r=1;

}

return r;

}

}

2) validatenumber

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in); String number=s.next();

int r=UserMainCode.validateNumber(number);

if(r==1)

{

System.out.println("Valid number format");

}

else

{

System.out.println("Invalid number format");

}

s.close();

}

}

USERMAINCODE:

public class UserMainCode {

public static int validateNumber(String number)

{

int b;

if(number.matches("[0-9]{3}[-]{1}[0-9]{3}[-]{1}[0-9]{4}"))

{

b=1;

}

else

{

b=0;

}

return b;

}

}

3) sumofsquaresofevendigits

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int n=s.nextInt();

System.out.println(UserMainCode.sumOfSquaresOfEvenDigits(n));

s.close();

}

}

USERMAINCODE:

public class UserMainCode {

public static int sumOfSquaresOfEvenDigits(int n)

{

int n1=0; int sum=0; while(n!=0)

{

n1=n%10;

if(n1%2==0)

{

sum+=n1\*n1;

}

n=n/10;

}

return sum;

}

}

4) getmiddlechars

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in); String str=s.nextLine();

System.out.println(UserMainCode.getMiddleChars(str));

s.close();

}

}

USERMAINCODE:

public class UserMainCode {

public static String getMiddleChars(String str)

{

StringBuffer sb=new StringBuffer();

if(str.length()%2==0)

{

sb.append(str.substring((str.length()/2)-1,(str.length()/2)+1));

}

return sb.toString();

}

}

5) checkcharacters

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in); String input=s.nextLine();

int r=UserMainCode.checkCharacters(input);

if(r==1)

{

System.out.println("Valid");

}

else

{

System.out.println("Invalid");

}

s.close();

}

USERMAINCODE:

public class UserMainCode {

public static int checkCharacters(String input)

{

int r=0;

/\* StringTokenizer t = new StringTokenizer(input," "); String s = t.nextToken();

String s1 =s ;

while(t.hasMoreTokens())

{

s1 = t.nextToken();

}\*/

if(input.charAt(0) == input.charAt(input.length()-1))

{

r=1;

}

else{

r=0;

}

return r;

}

}

6) formnewword

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in); String s1=s.nextLine();

int n1=s.nextInt(); System.out.println(UserMainCode.formNewWord(s1,n1)); s.close();

}

}

USERMAINCODE:

public class UserMainCode {

public static String formNewWord(String s1,int n)

{

String s = new String();

if(s1.length()>n)

{

s = s1.substring(0,n) + s1.substring(s1.length()-n, s1.length());

return s;

}

else

return null;

}

}

7)reversenumber

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int n=s.nextInt(); System.out.println(UserMainCode.reverseNumber(n)); s.close();

}

}

USERMAINCODE:

public class UserMainCode {

public static int reverseNumber(int n)

{

int a,r=0;

while(n!=0)

{

a=n%10;

r=r\*10+a; n=n/10;

}

return r;

}

}

8) sortmergedarraylist

Sample Input 1:

3

1

17

11

19

5

2

7

6

20

Sample Output 1:

3

11

19

Sample Input 2:

1

2

3

4

5

6

7

8

9

10

Sample Output 2:

3

7

9

Main:

import java.util.\*;

public class Main {

public static void main(String[] arg

{

Scanner s=new Scanner(System.in); ArrayList<Integer> list1=new ArrayList<Integer>(); ArrayList<Integer> list2=new ArrayList<Integer>(); ArrayList<Integer> newlist=new ArrayList<Integer>(); for (int i = 0; i < 5; i++)

{

list1.add(s.nextInt());

}

for (int i = 0; i < 5; i++)

{

list2.add(s.nextInt());

}

newlist=UserMainCode.sortMergedArraylist(list1,list2);

for (int i = 0; i < 3; i++)

{

System.out.println(newlist.get(i));

}

s.close();

}

}

UERMAINCODE:

import java.util.\*;

public class UserMainCode {

public static ArrayList<Integer> sortMergedArraylist(ArrayList<Integer> list1,ArrayList<Integer> list2)

{

list1.addAll(list2); Collections.sort(list1);

ArrayList<Integer> ans=new ArrayList<Integer>(); ans.add(list1.get(2));

ans.add(list1.get(6));

ans.add(list1.get(8));

return ans;

}

9)validating date format validatedate

Sample Input 1:

12/06/19

Sample Output 1: Valid date format Sample Input 2: 03/1/1987

Sample Output 2:

Invalid date format

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in); String s1=sc.nextLine();

int b=UserMainCode.ValidateDate(s1);

if(b==1){

System.out.println("Valid date format");

}

else{

System.out.println("Invalid date format");

}

sc.close();

}

}

UERMAINCODE:

public class UserMainCode {

static int b=0;

public static int ValidateDate(String s1)

{

if(s1.matches("[0-9]{2}[/]{1}[0-9]{2}[/]{1}[0-9]{4}"))

{

b=1;

}

else

{

b=-1;

}

return b;

}

}

10) validate time validatetime

Input and Output Format:

Input is a string . Output is a string . Sample Input 1:

09:59 pm

Sample Output 1:

Valid time

Sample Input 2:

10:70 AM

Sample Output 2:

Invalid time

Main:

import java.util.\*;

public class Main{

public static void main(String []args){ Scanner sc=new Scanner(System.in); String str=sc.nextLine();

int b=UserMainCode.ValidateTime(str);

if(b==1){

System.out.println("Valid time");

}

else{

}

System.out.println("Invalid time");

sc.close();

}}

UserMainCode:

import java.text.\*; import java.util.\*; public class UserMainCode{

public static int ValidateTime(String str){ StringTokenizer st=new StringTokenizer(str,":"); if(st.countTokens()==3)

{

SimpleDateFormat sdf1 = new SimpleDateFormat("h:mm:ss a"); sdf1.setLenient(false);

try

{

Date d2=sdf1.parse(str); return 1;

}

catch(Exception e)

{

return -1;

}}

else

{

SimpleDateFormat sdf = new SimpleDateFormat("h:mm a"); sdf.setLenient(false);

try

{

Date d1=sdf.parse(str); return 1;

catch(Exception e){

return -1;

}}}}

11).string encryption string encrypt

Input and Output Format: Input is a string .

Output is a string. Sample Input 1: curiosity

Sample Output 1:

dusipsjtz

Sample Input 2:

zzzz

Sample Output 2:

Azaz

Main:

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in);

String s1=s.next(); System.out.println(UserMainCode.encrypt(s1)); s.close();

}

}

UserMainCode:

public class UserMainCode{

public static String encrypt(String s1) { StringBuffer sb=new StringBuffer(); for(int i=0;i<s1.length();i++){

char c=s1.charAt(i); if(i%2==0){ if(c==122) if((c==122)&&(i==0)){ c='A';}

else

c=(char) (c-25);

else{

c=(char) (c+1);}

sb.append(c);} else sb.append(c);}

return sb.toString();

}}

12) password validation validatepassword

input and Output Format:

Input consists of a string.

Output is a string Valid or Invalid.

Refer sample output for formatting specifications.

Sample Input 1:

ashok\_23

Sample Output 1:

Valid

Sample Input 2:

1980\_200

Sample Output 2:

Invalid

Main:

import java.util.\*;

public class Main {

public static void main(String[] args){ Scanner s=new Scanner(System.in);

String password=s.next();

int b=UserMainCode.ValidatePassword(password);

if(b==1){

System.out.println("Valid Password");

}

else{

System.out.println("Invalid Password");

}

s.close();

}}

UserMainCode:

public class UserMainCode{

public static int ValidatePassword(String password){ if(password.matches(".\*[0-9]{1,}.\*") && password.matches(".\*[@#$]{1,}.\*") && password.length()>=6 && password.length()<=20)

{

return 1;

}

else

{

return -1;

}}}

13. removeevenvowels removing vowels from string

Sample Input 1: commitment Sample Output 1: cmmitmnt

Sample Input 2:

capacity

Sample Output 2:

Cpcty

Main:

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in); String s1=s.nextLine();

System.out.println(UserMainCode.removeEvenVowels(s1)); s.close();

}}

UserMainCode:

public class UserMainCode{

public static String removeEvenVowels(String s1) { StringBuffer sb1=new StringBuffer();

for(int i=0;i<s1.length();i++)

if((i%2)==0)

sb1.append(s1.charAt(i));

else if((i%2)!=0)

if(s1.charAt(i)!='a' && s1.charAt(i)!='e' && s1.charAt(i)!='i' && s1.charAt(i)!='o' && s1.charAt(i)!='u') if(s1.charAt(i)!='A' && s1.charAt(i)!='E' && s1.charAt(i)!='I' && s1.charAt(i)!='O' && s1.charAt(i)!='U') sb1.append(s1.charAt(i));

return sb1.toString();

}}

14. getsumofpower sum of powers of elements in an array

Sample Input 1:

4

3

6

2

1

Sample Output 1:

12

Sample Input 2:

4

5

3

7

2

Sample Output 2:

61

Main:

import java.util.Scanner;

public class Main{

public static void main(String args[]){ Scanner sc=new Scanner(System.in);

int n=sc.nextInt(); int a[]=new int[n]; for(int i=0;i<n;i++)

{

a[i]=sc.nextInt();

}

System.out.println(UserMainCode.getSumOfPower(n,a)); sc.close();

}}

UserMainCode:

public class UserMainCode{

public static int getSumOfPower(int n,int[]a)

{{

int sum=0;

for(int i=0;i<n;i++)

sum=(int)(sum+Math.pow(a[i], i));

return sum;

}}}

15. getbigdiff

Sample Input 1:

4

3

6

2

1

Sample Output 1:

5

Sample Input 2:

4

5

3

7

2

Sample Output 2:

5

Main:

import java.util.\*;

public class Main {

public static void main(String args[]){ Scanner sc=new Scanner(System.in); int n=sc.nextInt();

int a[]=new int[n]; for(int i=0;i<n;i++)

{

a[i]=sc.nextInt();

}

System.out.println(UserMainCode.getBigDiff(a,n)); sc.close();

}}

UserMainCode:

import java.util.\*;

public class UserMainCode{

public static int getBigDiff(int [] a,int n)

{

Arrays.sort(a);

int n1=a[a.length-1]-a[0];

return n1;

}}

16. getelementposition

Input and Output Format:

Input is an string array. First element in the input represents the size the array Assume the position of first element is 1.

Output is an integer which is the position of the string variable

Sample Input 1:

4

red green blue ivory ivory

Sample Output 1:

2

Sample Input 2:

3

grape mango apple apple

Sample Output 2:

3

Main:

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner sc=new Scanner(System.in);

int fr=sc.nextInt();

String a[]=new String[fr];

for(int i=0;i<fr;i++)

{

a[i]=sc.next();

}

String ba=sc.next(); UserMainCode.getElementPosition(a,ba); sc.close();

}}

UserMainCode: import java.util.\*;

public class UserMainCode{

public static void getElementPosition(String[] a, String b) { ArrayList<String>al=new ArrayList<String>();

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

{

al.add(a[i]);

}

Collections.sort(al); Collections.reverse(al); for(int i=0;i<al.size();i++)

{

if(b.equals(al.get(i)))

{

System.out.println(i+1);

}}}}

17. generate the series addSeries

Input and Output Format:

Input consists of a positive integer n. Output is a single integer .

Refer sample output for formatting specifications.

Sample Input 1:

9

Sample Output 1:

-3

Sample Input 2:

11

Sample Output 2:

8

Main

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in);

int n=s.nextInt(); System.out.println(UserMainCode.addSeries(n)); s.close();

}

}

UserMainCode

import java.util.ArrayList;

import java.util.List;

public class UserMainCode {

public static int addSeries(int n){ List<Integer> l1=new ArrayList<Integer>(); for(int i=1;i<=n;i++)

if(i%2!=0) l1.add(i);

int n1=l1.get(0);

for(int i=1;i<l1.size();i++)

if(i%2!=0) n1=n1+l1.get(i); else

n1=n1-l1.get(i);

return n1;

}

}

18.calculate electricity bill calculateelectricitybill

Sample Input 1: ABC2012345 ABC2012660

4

Sample Output 1:

1260

Sample Input 2: ABCDE11111 ABCDE11222

3

Sample Output 2:

333

Main

import java.util.Scanner;

public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in); String input1=s.next();

String input2=s.next();

int input3=s.nextInt();

System.out.println(UserMainCode.calculateElectricityBill(input1,input2,inpu

t3));

s.close();

}

}

UserMainCode

public class UserMainCode {

public static int calculateElectricityBill(String input1, String input2,

int input3)

{

int n1=Integer.parseInt(input1.substring(5, input1.length())); int n2=Integer.parseInt(input2.substring(5, input2.length())); int n=Math.abs((n2-n1)\*input3);

return n;

}

}

19.sum of digits in a string sumofdigits

Sample Input 1: good23bad4 Sample Output 1:

9

Sample Input 2:

good

Sample Output 2:

-1

Main:

import java.util.Scanner;

public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in); String s1=s.next(); UserMainCode.sumOfDigits(s1); s.close();

}

}

UserMainCode

public class UserMainCode {

public static void sumOfDigits(String s1) {

int sum=0;

for(int i=0;i<s1.length();i++)

{

char a=s1.charAt(i);

if(Character.isDigit(a))

{

int b=Integer.parseInt(String.valueOf(a)); sum=sum+b;

}

}

if(sum==0)

{

System.out.println(-1);

}

else

System.out.println(sum);

}

}

20.string concatenation concatstring

Sample Input 1:

Hello hi

Sample Output 1:

lohi

Sample Input 2:

Hello Delhi

Sample Output 2:

HelloDelhi

Main

import java.util.Scanner;

public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in); String s1=s.next();

String s2=s.next(); UserMainCode.concatstring(s1,s2); s.close();

}

}

UserMainCode

public class UserMainCode {

public static void concatstring(String s1, String s2) { StringBuffer sb=new StringBuffer();

int l1=s1.length(); int l2=s2.length(); if(l1==l2)

{

sb.append(s1).append(s2);

}

else if(l1>l2)

{

sb.append(s1.substring(s1.length()- s2.length(),s1.length())).append(s2);

}

else if(l1<l2)

{

sb.append(s1).append(s2.substring(s2.length()- s1.length(),s2.length()));

}

System.out.println(sb);

}

}

21.color code validatecolorcode

input and Output Format:

Input consists of a string.

Output consists of a string (Valid or Invalid). Refer sample output for formatting specifications. Sample Input 1:

#FF9922

Sample Output 1:

Valid

Sample Input 2:

#FF9(22

Sample Output 2:

Invalid

Main

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in); String s1=s.next();

int b=UserMainCode.validateColorCode(s1);

if(b==1) System.out.println("Valid"); else System.out.println("Invalid"); s.close();

}

}

UserMainCode:

public class UserMainCode {

public static int validateColorCode(String s1) {

int b=0,b1=0;

String s2=s1.substring(1,s1.length()); if(s1.length()==7) if(s1.charAt(0)=='#')

b1=1;

if(b1==1){

/\*for(int i=0;i<s2.length();i++){

char c=s2.charAt(i); if(c!='#')

{\*/

if(s2.matches("[A-F0-9]{1,}"))

b=1;

else

b=-1;

//break;

}

return b;

}

}

22.three digits validatestrings

input and Output Format:

Input consists of a string.

Output consists of a string (Valid or Invalid). Refer sample output for formatting specifications. Sample Input 1:

CTS-215

Sample Output 1:

Valid

Sample Input 2:

CTS-2L5

Sample Output 2:

Invalid

Main:

import java.util.Scanner;

public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in); String s1=s.next();

int b=UserMainCode.validatestrings(s1);

if(b==1){

System.out.println("Valid");} else System.out.println("Invalid"); s.close();

}

}

UserMainCode

public class UserMainCode {

public static int validatestrings(String s1) {

int res=0;

if(s1.matches("(CTS)[-]{1}[0-9]{3}"))

{

res=1;

}

else

res=-1;

return res;

}

}

23.removing keys from hashmap sizeofresultandhashmap

Input and Output Format:

First input corresponds to the size of the hashmap. Input consists of a hashmap<integer,string>.

Output is an integer which is the size of the hashmap. Refer sample output for formatting specifications.

Sample Input 1:

3

2

hi 4

hello 12

hello world

Sample Output 1:

1

Sample Input 2:

3

2

hi 4

sdfsdf 3

asdf

Sample Output 2:

2

Main

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner sc=new Scanner(System.in);

int s=sc.nextInt();

HashMap<Integer, String>hm=new HashMap<Integer, String>();

for(int i=0;i<s;i++){

hm.put((sc.nextInt()),(sc.next()));

}

System.out.println(UserMainCode.sizeOfResultandHashMap(hm));

sc.close();

} }

UserMainCode

import java.util.HashMap;

import java.util.Iterator;

public class UserMainCode {

public static int sizeOfResultandHashMap(HashMap<Integer, String> hm) {

int count=0;

Iterator<Integer>itr=hm.keySet().iterator();

while(itr.hasNext())

{

int n=itr.next();

if(n%4!=0)

{

count++;

}

}

return count;

}

}

24.largest element checklargestamongcorner

sample Input 1:

5

2

3

8

4

5

Sample Output 1:

8

Main

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in); int n=s.nextInt();

int a[]=new int[n]; for(int i=0;i<n;i++){

a[i]=s.nextInt();

}

System.out.println(UserMainCode.checkLargestAmongCorner(a)); s.close();

}

}

UserMainCode

public class UserMainCode {

public static int checkLargestAmongCorner(int []a)

{

int max=0;

int x,y,z;

x=a[0];

y=a[a.length/2]; z=a[a.length-1]; if(x>y && x>z) max=x;

else if(y>x && y>z) max=y;

else if(z>x && z>y) max=z;

return max;

}

}

25. ncr calculatencr

Sample Input 1:

4

3

Sample Output 1:

4

Main

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in);

int n=s.nextInt();

int r=s.nextInt(); System.out.println(UserMainCode.calculateNcr(n,r));

}

}

UserMainCode

public class UserMainCode {

public static int calculateNcr(int n, int r) {

int fact=1,fact1=1,fact2=1;

for(int i=1;i<=n;i++)

{

fact=fact\*i;

}

//System.out.println(fact);

for(int i=1;i<=r;i++)

{

fact1=fact1\*i;

}

//System.out.println(fact1);

for(int i=1;i<=(n-r);i++)

{

fact2=fact2\*i;

}

return fact2;

//System.out.println(fact2); int res=fact/(fact1\*fact2); return res;

}

}

26.sum of common elements getsumofintersection

Sample Input 1:

4

3

2

3

5

1

1

3

9

Sample Output 1:

4

Sample Input 2:

4

3

2

3

5

1

12

31

9

Sample Output 2:

No common elements

Main

import java.util.Scanner;

public class Main {

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt(); int m=sc.nextInt(); int[] a=new int[n]; int[] b=new int[m]; for(int i=0;i<n;i++){ a[i]=sc.nextInt();} for(int i=0;i<m;i++){ b[i]=sc.nextInt();}

int u=UserMainCode.getSumOfIntersection (a,b,n,m);

if(u==-1)

System.out.println("No common elements");

else

System.out.println(u); sc.close();

}}

UserMainCode

public class UserMainCode {

public static int getSumOfIntersection(int a[],int b[],int n,int m)

{

int sum=0;

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

{

for(int j=0;j<b.length;j++)

{if(a[i]==b[j]) sum=sum+a[i];

}}

if(sum==0) return -1; else return sum;

}

}

27. validating input password validatepassword

Input and Output Format:

Input consists of a string.

Output is a string Valid or Invalid.

Refer sample output for formatting specifications.

Sample Input 1:

ashok\_23

Sample Output 1:

Valid

Sample Input 2:

1980\_200

Sample Output 2:

Invalid

Main

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in); String a=sc.next();

int e=UserMainCode.validatePassword(a);

if(e==1){ System.out.println("Valid");

}

else

{

System.out.println("Invalid");

}

sc.close();

}}

UserMainCode

public class UserMainCode {

public static int validatePassword(String a){

int d=0;

if(a.length()>=8){

if(a.contains("#") || a.contains("@") || a.contains("\_"))

{

char c= a.charAt(0);

//System.out.println(c);

if(Character.isAlphabetic(c))

{

char dd=a.charAt(a.length()-1);

//System.out.println(dd);

if((Character.isAlphabetic(dd))||(Character.isDigit(dd)))

{

if(a.matches(".\*[0-9]{1,}.\*")||a.matches(".\*[a-zA-Z]{1,}.\*")){ d=1;

}

}

}

}

}

else

d=-1;

return d;

}}

28. id validation validateidlocations

Sample Input 1:

CTS-hyd-1234

hyderabad

Sample Output 1:

Valid id

Sample Input 2:

CTS-hyd-123

hyderabad

Sample Output 2:

Invalid id

Main

import java.util.\*;

public class Main3 {

public static void main(String[] args) { Scanner sc=new Scanner(System.in);

String s1=sc.next(); String s2=sc.next();

boolean b=UserMainCode3.validateIDLocations(s1,s2);

if(b==true) System.out.println("Valid id"); else

System.out.println("Invalid id");

sc.close();

}

}

UserMainCode

import java.util.StringTokenizer;

public class UserMainCode3 {

public static boolean validateIDLocations(String s1, String s2) { String s3=s2.substring(0, 3);

boolean b=false;

StringTokenizer t=new StringTokenizer(s1,"-"); String s4=t.nextToken();

String s5=t.nextToken(); String s6=t.nextToken();

if(s4.equals("CTS") && s5.equals(s3) && s6.matches("[0-9]{4}")) b=true;

else{ b=false;} return b;

}

}

29.remove elements removeelements

Sample Input 1:

5

a bb b ccc ddd 2

Sample Output 1:

4

Main

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in); int n=Integer.parseInt(sc.nextLine()); String[] a=new String[n];

for(int i=0;i<n;i++) a[i]=sc.nextLine();

int m=Integer.parseInt(sc.nextLine()); System.out.println(UserMainCode.removeElements(a,m)); sc.close();

}

}

UserMainCode

public class UserMainCode {

public static int removeElements(String[] a,int m){

int u=a.length;

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

{

if(a[i].length()==m) u--;

}

return u;

}

}

30. find the difference between dates in months getmonthdifference

Sample Input 1:

2012-03-01

2012-04-16

Sample Output 1:

1

Sample Input 2:

2011-03-01

2012-04-16

Sample Output 2:

Main

import java.text.\*;

import java.util.\*;

public class Main {

public static void main(String[] args) throws ParseException { Scanner sc=new Scanner(System.in);

String s1=sc.next(); String s2=sc.next();

System.out.println(UserMainCode.getMonthDifference(s1,s2)); sc.close();

}}

UserMainCode

import java.util.Date;

public class UserMainCode {

public static int getMonthDifference(String s1, String s2) throws

ParseException {

SimpleDateFormat sdf=new SimpleDateFormat("yyyy-MM-dd"); Date d1=sdf.parse(s1);

Date d2=sdf.parse(s2);

Calendar cal=Calendar.getInstance();

cal.setTime(d1);

int months1=cal.get(Calendar.MONTH); int year1=cal.get(Calendar.YEAR); cal.setTime(d2);

int months2=cal.get(Calendar.MONTH);

int year2=cal.get(Calendar.YEAR);

int n=((year2-year1)\*12)+(months2-months1);

return n;

}

}

31.sum of cubes and squares of elements in an array addevenodd

Sample Input 1:

5

2

6

3

4

5

Sample Output 1:

208

Main:

import java.util.Scanner;

public class Main {

public static void main(String[] args) { Scanner sc=new Scanner(System.in); int n=sc.nextInt();

int a[]=new int[n]; for(int i=0;i<n;i++){

a[i]=sc.nextInt();

}

System.out.println(UserMainCode.addEvenOdd(a)); sc.close();

}

}

UserMainCode

public class UserMainCode {

public static int addEvenOdd(int[] a) {

int n1=0,n2=0;

for(int i=0;i<a.length;i++) if(a[i]%2==0) n1+=(a[i]\*a[i]);

else n2+=(a[i]\*a[i]\*a[i]); return n1+n2;

}

}

32.ip validator: ipvalidator

Sample Input 1:

132.145.184.210

Sample Output 1:

Valid

Sample Input 2:

132.145.184.290

Sample Output 2:

Invalid

Main

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner sc=new Scanner(System.in);

String ipAddress=sc.next();

boolean b=UserMainCode.validateIpAddress(ipAddress);

if(b==true) System.out.println("Valid"); else System.out.println("Invalid"); sc.close();

}

}

UserMainCode

import java.util.StringTokenizer;

public class UserMainCode {

public static boolean validateIpAddress(String ipAddress) {

boolean b1=false;

StringTokenizer t=new StringTokenizer(ipAddress,".");

int a=Integer.parseInt(t.nextToken()); int b=Integer.parseInt(t.nextToken()); int c=Integer.parseInt(t.nextToken()); int d=Integer.parseInt(t.nextToken());

if((a>=0 && a<=255)&&(b>=0 && b<=255)&&(c>=0 && c<=255)&&(d>=0 && d<=255))

b1=true;

return b1;

}

}

33.difference between two dates in days getdatedifference

Sample Input 1:

2012-03-12

2012-03-14

Sample Output 1:

2

Sample Input 2:

2012-04-25

2012-04-28

Sample Output 2:

3

Main

import java.text.ParseException;

import java.util.\*;

public class Main {

public static void main(String[] args) throws ParseException

{

Scanner s=new Scanner(System.in); String s1=s.nextLine();

String s2=s.nextLine();

int output=UserMainCode.getDateDifference(s1,s2); System.out.println(output);

s.close();

}

}

UserMainCode

import java.text.ParseException; import java.text.SimpleDateFormat; import java.util.\*;

public class UserMainCode {

public static int getDateDifference(String s1,String s2) throws ParseException

{

SimpleDateFormat sd=new SimpleDateFormat("yyyy-MM-dd"); Date d=sd.parse(s1);

Calendar c=Calendar.getInstance(); c.setTime(d);

long d1=c.getTimeInMillis(); d=sd.parse(s2); c.setTime(d);

long d2=c.getTimeInMillis();

int n=Math.abs((int) ((d1-d2)/(1000\*3600\*24)));

return n;

}

}

34.file extension fileidentifier

Sample Input 1:

sun.gif

Sample Output 1:

Gif

Main

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in); System.out.println("enter the string"); String s1=s.nextLine();

String output=UserMainCode.fileIdentifier(s1); System.out.println(output);

s.close();

}

}

UserMainCode

public class UserMainCode {

public static String fileIdentifier(String s1)

{

StringTokenizer t=new StringTokenizer(s1,"."); t.nextToken();

String s2=t.nextToken();

return s2;

}

}

35.find common characters and unique characters in string commonchars

Sample Input 2:

australia sri lanka

Sample Output 2:

4

Main

import java.util.Scanner;

public class Main {

public static void main(String[] args) { Scanner sc=new Scanner(System.in); String s1=sc.nextLine();

String s2=sc.nextLine();

StringBuffer sb1=new StringBuffer(s1.replace(" ",""));

StringBuffer sb2=new StringBuffer(s2.replace(" ","")); int output=UserMainCode.commonChars(s1,s2,sb1,sb2); System.out.println(output);

sc.close();

}

}

UserMainCode

import java.util.\*;

import java.util.\*;

public class UserMainCode {

public static int commonChars(String s1,String s2,StringBuffer sb1,StringBuffer sb2) {

for(int i=0;i<sb1.length();i++){

int c=0;

for(int j=i+1;j<sb1.length();j++){ if(sb1.charAt(i)==sb1.charAt(j)){ sb1.deleteCharAt(j);

c++;

}

}

if(c>=1){ sb1.deleteCharAt(i);

}

}

for(int i=0;i<sb2.length();i++){

int c=0;

for(int j=i+1;j<sb2.length();j++){ if(sb2.charAt(i)==sb2.charAt(j)){ sb2.deleteCharAt(j);

c++;

}

}

if(c>=1){ sb2.deleteCharAt(i);

}

}

int count=0;

for(int i=0;i<sb1.length();i++){ for(int j=0;j<sb2.length();j++){ if(sb1.charAt(i)==sb2.charAt(j)){ count++;

}

}

}

return (count);

}

}

36.initial format nameformatter

Sample Input : Jessica Miller Sample Output: Miller, J

Main

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in); String s1=s.nextLine();

String output=UserMainCode.nameFormatter(s1); System.out.println(output);

s.close();

}

}

UserMainCode

import java.util.\*;

public class UserMainCode {

public static String nameFormatter(String s1) { StringBuffer sb=new StringBuffer(); StringTokenizer st=new StringTokenizer(s1," "); String s2=st.nextToken();

String s3=st.nextToken();

sb.append(s3).append(","); sb.append(s2.substring(0,1).toUpperCase()); return sb.toString();

}

}

37.character cleaning removecharacter

Sample Input :

elephant e

Sample Output:

Lphant

Main

import java.util.\*; public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in); String s1=s.nextLine();

String c=s.nextLine();

String output=UserMainCode.removeCharacter(s1,c); System.out.println(output);

}

}

UserMainCode

import java.util.\*;

public class UserMainCode {

public static String removeCharacter(String s1,String c)

{

String d=s1.replace(c,"");

return d;

}

}

38.vowel check getvowels

Sample Input 1: abceiduosp Sample Output 1: yes

Sample Input 2:

bceiduosp

Sample Output 2:

No

Main

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in); String s1=s.nextLine();

String s2=s1.toLowerCase();

int output=UserMainCode.getVowels(s2);

//System.out.println(output);

if(output==1)

{

System.out.println("yes");

}

else

System.out.println("no");

s.close();

}

}

UserMainCode

import java.util.\*;

public class UserMainCode {

public static int getVowels(String s2) {

if(s2.contains("a") && s2.contains("e") && s2.contains("i") && s2.contains("o") && s2.contains("u") )

{

return 1;

}

else return -1;

}

}

39.swap characters swapcharacter

Sample Input 1:

TRAINER

Sample Output 1:

RTIAENR

Sample Input 2:

TOM ANDJERRY

Sample output 2:

OT MNAJDREYR

Main

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.nextLine();

}

String output=UserMainCode.swapCharacter(s1);

System.out.println(output);

s.close();

}

}

UserMainCode

import java.util.\*;

public class UserMainCode {

public static String swapCharacter(String s1)

{

StringBuffer sb=new StringBuffer();

int l=s1.length();

if(l%2==0)

{

for(int i=0;i<s1.length()-1;i=i+2)

{

char a=s1.charAt(i); char b=s1.charAt(i+1); sb.append(b).append(a);

}

return sb.toString();

}

else

{

for(int i = 0;i<s1.length()-1;i=i+2)

{

char a=s1.charAt(i); char b=s1.charAt(i+1); sb.append(b).append(a);

}

sb.append(s1.charAt(l-1));

return sb.toString();

}

}

}

40.average of elements in hashmap avgofeven

Sample Input 1:

3

1

2.3

2

4.1

6

6.2

Sample Output 1:

5.15

Sample Input 2:

3

9

3.1

4

6.3

1

2.6

Sample Output 2:

6.3

Main

import java.util.HashMap; import java.util.Scanner; public class Main {

public static void main(String []args){ Scanner sc=new Scanner(System.in);

int s=sc.nextInt();

HashMap<Integer,Float>hm=new HashMap<Integer,Float>();

for(int i=0;i<s;i++)

{

int r=sc.nextInt(); Float j=sc.nextFloat(); hm.put(r,j);

}

System.out.println(UserMainCode.display(hm)); sc.close();

}

}

UserMainCode

import java.text.DecimalFormat;

import java.util.\*;

public class UserMainCode

{

public static String display(HashMap<Integer,Float>hm)

{

float sum=0;

int count=0;

DecimalFormat df=new DecimalFormat("#.00"); Iterator<Integer> it=hm.keySet().iterator(); while(it.hasNext())

{

int y=it.next();

if(y%2==0)

{

sum=(float) (sum+hm.get(y)); count++;

}}

float d=sum/count;

return df.format(d);

}

}

41.calculate average – hash map calculateaverage

Sample Input :

4

1

3.41

2

4.1

3

1.61

4

2.5

Sample Output :

2.51

Main

import java.util.\*; import java.text.\*; public class Main {

public static void main(String[] arg)

{

HashMap<Integer,Double> hm=new HashMap<Integer,Double>(); Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

for(int i=0;i<n;i++)

{

int a=sc.nextInt(); double s=sc.nextDouble(); hm.put(a,s);

}

System.out.println(UserMaincode.dis(hm));

}}

UserMainCode

class UserMaincode

{

public static double dis(HashMap<Integer,Double> h1)

{

double avg=0.0,sum=0.0;

int k=0;

for(Map.Entry m:h1.entrySet())

{

int a=(Integer)m.getKey();

if(a%2!=0)

{

Double d=(Double) m.getValue(); sum=sum+d;

k++;

}

}

avg = (double)sum/k;

DecimalFormat df = new DecimalFormat(".##"); String b1 = df.format(avg);

double b = Double.parseDouble(b1);

return b;

}

}

42.count sequential characters countsequentialchars

Sample Input 1:

abcXXXabc

Sample Output 1:

1

Sample Input 2: aaaxxyzAAAx Sample Output 2:

2

Main

import java.util.\*; import java.text.\*; public class Main {

public static void main(String[] arg)

{

HashMap<Integer,Double> hm=new HashMap<Integer,Double>(); Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

for(int i=0;i<n;i++)

{

int a=sc.nextInt(); double s=sc.nextDouble(); hm.put(a,s);

}

System.out.println(UserMaincode.dis(hm));

}}

UserMainCode

class UserMaincode

{

public static double dis(HashMap<Integer,Double> h1)

{

double avg=0.0,sum=0.0;

int k=0;

for(Map.Entry m:h1.entrySet())

{

int a=(Integer)m.getKey();

if(a%2!=0)

{

Double d=(Double) m.getValue(); sum=sum+d;

k++;

}

}

avg = (double)sum/k;

DecimalFormat df = new DecimalFormat(".##"); String b1 = df.format(avg);

double b = Double.parseDouble(b1);

return b;

}

}

43. length of the largest chunk largestchunk

Sample Input 1: You are toooo good Sample Output 1:

4

(Because the largest chunk is letter 'o' which is repeating 4 times) Sample Input 2:

who are u

Sample Output 2:

No chunks

Main

import java.util.\*; import java.text.\*; public class Main {

public static void main(String[] arg)

{

HashMap<Integer,Double> hm=new HashMap<Integer,Double>(); Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

for(int i=0;i<n;i++)

{

int a=sc.nextInt(); double s=sc.nextDouble(); hm.put(a,s);

}

System.out.println(UserMaincode.dis(hm));

}}

UserMainCode

class UserMaincode

{

public static double dis(HashMap<Integer,Double> h1)

{

double avg=0.0,sum=0.0;

int k=0;

for(Map.Entry m:h1.entrySet())

{

int a=(Integer)m.getKey();

if(a%2!=0)

{

Double d=(Double) m.getValue(); sum=sum+d;

k++;

}

}

avg = (double)sum/k;

DecimalFormat df = new DecimalFormat(".##"); String b1 = df.format(avg);

double b = Double.parseDouble(b1);

return b;

}

}

44.unique characters in a string uniquecounter

Input and Output Format:

Input consists a string.

Output is an getFormatedString integer.

Refer sample output for formatting specifications.

Sample Input 1: HelloWorld Sample Output 1:

5

Sample Input 2:

coco

Sample Output 2:

-1

Main:

import java.util.\*;

import java.text.\*;

public class Main {

public static void main(String[] args) throws ParseException { Scanner sc = new Scanner(System.in);

String s1 = sc.nextLine(); System.out.println(UserMaincode.uniqueCounter(s1));

}}

Usermaincode:

class UserMaincode

{

public static int uniqueCounter(String s1)

{

StringBuffer sb = new StringBuffer(s1); for (int i = 0; i < sb.length(); i++) { int count = 0;

for (int j = i + 1; j < sb.length(); j++) { if (sb.charAt(i) == sb.charAt(j)) { sb.deleteCharAt(j);

j--;

count++;

}

}

if (count >= 1) { sb.deleteCharAt(i); i--;

}

}

return sb.length();

}

}

45.name shrinking getformatedstring

Input and Output Format:

Input consists of a string. Output consists of a String.

Refer sample output for formatting specifications.

Sample Input:

Sachin Ramesh Tendulkar Sample Output: Tendulkar R.S

Main:

import java.text.\*;

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner sc=new Scanner(System.in);

String s1=sc.nextLine(); System.out.println(UserMainCode.getFormatedString(s1));

}

}

UserMainCode:

class UserMainCode

{

public static String getFormatedString(String s1) { StringBuffer sb=new StringBuffer();

StringTokenizer st=new StringTokenizer(s1," "); String s2=st.nextToken();

String s3=st.nextToken(); String s4=st.nextToken(); sb.append(s4).append(" "); sb.append(s3.substring(0,1)); sb.append("."); sb.append(s2.substring(0,1)); return sb.toString();

}

}

46. odd digit sum odddigitsum

Sample Input :

3

cog2nizant1 al33k d2t4H3r5

Sample Output :

15

(1+3+3+3+5)

Main:

import java.util.Scanner;

public class Main {

public static void main(String[] args) { Scanner sc = new Scanner(System.in);

int s1=sc.nextInt();

String[] s2 = new String[s1]; for (int i = 0; i < s1; i++) { s2[i] = sc.next();

}

System.out.println(UserMainCode. oddDigitSum(s2));

}}

UserMainCode:

public class UserMainCode {

public static int oddDigitSum (String[] s1) {

int sum=0;

for(int i=0;i<s1.length;i++) for(int j=0;j<s1[i].length();j++){ char c=s1[i].charAt(j); if(Character.isDigit(c)){ if(c%2!=0)

{

String t=String.valueOf(c); int n=Integer.parseInt(t); sum=sum+n; } }}

return sum;

}

}

47. unique number getunique

Sample Input 1:

123

Sample Output 1:

Unique

Sample Input 2:

33

Sample Output 2:

Not Unique

Main:

import java.util.\*;

import java.text.\*;

public class Main{

public static void main(String[]args)

{int j=0;

Scanner sc=new Scanner(System.in); int n=sc.nextInt(); j=UserMainCode.getUnique(n); if(j>0)

{

System.out.println("Not Unique");

}

else if(j==0)

{

System.out.println("Unique");

}

}}

UserMainCode

class UserMainCode

{

public static int getUnique(int n)

{

int []a=new int[100]; int i=0,count=0; while(n!=0)

{

int num=n%10; a[i]=num; i++;

n=n/10;

}

for(int j=0;j<=i-1;j++)

{

for(int k=j+1;k<=i-1;k++)

{

if(a[j]==a[k]){ count++;

}

}}

return count;

}

}

48.sum of lowest marks getlowest

Sample Input 1:

5

1

54

2

85

3

74

4

59

5

57

Sample Output 1:

170

Sample Input 2:

4

10

56

20

58

30

87

40

54

Sample Output 2:

168

Main

import java.util.\*;

public class Main {

public static void main(String args[]){ Scanner sc = new Scanner(System.in); int n=Integer.parseInt(sc.nextLine());

HashMap<Integer,Integer>h1=new HashMap<Integer,Integer>();

for(int i=0;i<n;i++)

{

h1.put(sc.nextInt(),sc.nextInt());

}

System.out.println(UserMainCode.getLowest(h1));

}

}

UserMainCode

import java.util.ArrayList;

import java.util.Collections;

import java.util.HashMap;

import java.util.Iterator;

class UserMainCode {

public static int getLowest(HashMap<Integer,Integer>h1)

{

ArrayList<Integer>a1=new ArrayList<Integer>();

int m=0;

Iterator<Integer>it=h1.keySet().iterator();

while(it.hasNext())

{

int x=it.next(); a1.add(h1.get(x));

}

Collections.sort(a1); m=a1.get(0)+a1.get(1)+a1.get(2); return m;

}}

49.color code validation same as 21 validatecolourcode

Sample Input 1:

#99FF33

Sample Output 1:

true

Sample Input 2:

#CCCC99#

Sample Output 2:

False

Main

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner s=new Scanner(System.in); String s1=s.next();

boolean b=UserMainCode. validateColourCode (s1);

if(b==true)

{

System.out.println("valid color code");

}

else{

System.out.println("invalid color code");

}}

}

UserMainCode

class UserMainCode{

public static boolean validateColourCode (String s1)

{

boolean b=false;

if(s1.length()==7&&s1.matches("#[A-F0-9]{1,}"))

{

b=true;

}

return b;

}

}

50.repeating set of characters in a string getstring

Sample Input 1:

Cognizant 3

Sample Output 1: Cognizantantantant Sample Input 2: myacademy

2

Sample Output 2:

Myacademymymy

Main

import java.util.\*;

public class Main {

public static void main(String[] args) { Scanner s= new Scanner(System.in); String input= s.next();

int n=s.nextInt(); System.out.println(userMainCode.getString(input,n));

}

}

userMainCode

class userMainCode {

public static String getString(String input, int n){ StringBuffer sb=new StringBuffer();

sb.append(input);

for (int i=0;i<n;i++){

sb.append(input.substring(input.length()-n,input.length()));

}

return sb.toString();

}

}

51.finding the day of birth

Sample Input 1: 29-07-2013

Sample Output 1: MONDAY

Sample Input 2: 14-12-1992

Sample Output 2: : MONDAY

Main

package level1;

import java.text.ParseException;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner s= new Scanner(System.in);

String input= s.next();

try {

System.out.println(userMainCode.calculateBornDay(input));

} catch (ParseException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

}

Usermaincode

package level1;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Date;

public class userMainCode {

public static String calculateBornDay(String input)throws ParseException {

SimpleDateFormat sdf= new SimpleDateFormat("dd-MM-yyyy");

SimpleDateFormat sdf1= new SimpleDateFormat("EEEEE");

Date d= sdf.parse(input);

String s1= sdf1.format(d);

return s1;

}

}

52.removing elements from hashmap

Sample Input 1: 4 339 RON 1010 JONS 3366 SMITH 2020 TIM Sample Output 1: 2 Sample Input 2: 5 1010 C2WE 6252 XY4E 1212

M2ED 7070 S2M41ITH 8585 J410N Sample Output 2: 3

Main

package afterdelete;

import java.util.HashMap;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s= new Scanner(System.in);

HashMap<Integer, String>hm=new HashMap<Integer, String>();

int n= s.nextInt();

for(int i=0;i<n;i++){

hm.put(s.nextInt(),s.next());

}

System.out.println(UserMainCode.afterDelete(hm));

s.close(); }

}

Usermaincode

package afterdelete;

import java.util.HashMap;

import java.util.Iterator;

public class UserMainCode {

public static int afterDelete(HashMap<Integer, String> hm) {

int count=0;

Iterator<Integer>itr=hm.keySet().iterator();

while(itr.hasNext())

{

int n=itr.next();

if(n%3!=0) {

count++;

}

}

return count;

}

}

53.experience calculator

Sample Input 1: 11/01/2010 01/09/2014 4 Sample Output 1: true Sample Input 2: 11/06/2009 01/09/2014 4 Sample Output 2: False

Main

package exp;

import java.text.ParseException;

import java.util.Scanner;

public class Main {

public static void main(String[] args)throws ParseException {

Scanner sc=new Scanner(System.in);

String a=sc.next();

String b=sc.next();

int c=sc.nextInt();

long res=(userMainCode.calculateExperience(a,b,c));

if(res==c)

{

System.out.println("true");

}

else

System.out.println("false"); }

}

Usermaincode

package exp;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Date;

public class userMainCode {

public static long calculateExperience(String a, String b, int c)throws ParseException {

SimpleDateFormat sdf=new SimpleDateFormat("dd/MM/yyyy");

Date d=new Date();

Date d1=new Date();

d=sdf.parse(a);

d1=sdf.parse(b);

long t=d.getTime();

long t1=d1.getTime();

long t3=t1-t;

long l1=(24 \* 60 \* 60 \* 1000);

long l=l1\*365;

long res=t3/l;

return res;

}

}

54.flush characters

Sample Input : cogniz$#45Ant Sample Output : $#45

Main

package flush;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s= new Scanner(System.in);

String input=s.nextLine();

System.out.println(UserMainCode.getSpecialChar(input));

}

}

Usermaincode

package flush;

public class UserMainCode {

public static String getSpecialChar(String input) {

input=input.replaceAll("[a-z]","");

input=input.replaceAll("[A-Z]","");

input=input.replaceAll(" ","");

return input;

}

}

55.string repetition

Sample Input 1: COGNIZANT 4 Sample Output 1: COG COG COG COG

Sample Input 2: COGNIZANT 2 Sample Output 2: CO CO

Main

package repeatstring;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s= new Scanner(System.in);

System.out.println("enter a String");

String input= s.next();

int n= s.nextInt();

System.out.println(UserMainCode.repeatString(input, n));

}

}

Usermaincode

package repeatstring;

public class UserMainCode {

public static String repeatString(String input, int n) {

StringBuffer sb= new StringBuffer();

String s1= new String();

if (n==1)

{

s1=input.substring(0,1);

sb.append(s1).append(" ");

}

if(n==2){

s1=input.substring(0,2);

for(int i=0;i<n;i++)

sb.append(s1).append(" ");

} if(n>=3){

s1=input.substring(0,3);

for(int i=0;i<n;i++)

sb.append(s1).append(" ");

}

return sb.toString();

}

}

56.average of prime locations

Sample Input 1: 8 4 1 7 6 5 8 6 9 Sample Output 1: 7.5

Main

package averageofprimelocations;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int []a=new int[20];

int n=sc.nextInt();

for(int i=0;i<n;i++)

{

a[i]=sc.nextInt();

}

System.out.print(UserMainCode.display(n,a));

}

}

UserMainCode

package averageofprimelocations;

import java.text.DecimalFormat;

public class UserMainCode {

public static double display(int n, int[] a) {

int count=0,sum=0,n1=0,d=0,count1=0;

double avg=0;

for(int i=2;i<n;i++)

{

count=0;

for(int j=1;j<=i;j++)

{

if(i%j==0)

{

count++;

}

}

if(count==2)

{

sum=sum+a[i];

count1++;

}

}

avg=(double)(sum)/count1;

DecimalFormat df=new DecimalFormat("#.00");

double ddd=Double.parseDouble(df.format(avg));

return ddd;

}}

57.common elements

Sample Input 1: 4 1 2 3 4 2

3 6 7 Sample Output 1: 5

Main

package commonele;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s = new Scanner (System.in);

int n = s.nextInt();

int a[] = new int[n];

int b[] = new int[n];

for(int i=0;i<n;i++)

{ a[i] = s.nextInt(); }

for(int i=0;i<n;i++) {

b[i] = s.nextInt(); }

System.out.println(UserMainCode.sumCommonElements(a, b));

}

}

Usermaincode

package commonele;

public class UserMainCode {

public static int sumCommonElements(int[] a, int[] b) {

int sum = 0 ;

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

{

for(int j=0;j<b.length;j++)

{

if(a[i]==b[j])

sum = sum + a[i];} }

if(sum==0)

return -1;

else

return sum; }

}

58. middle of array

Sample Input 1: 5 1 5 23 64 9 Sample Output 1: 23

Main

package middlearray;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int n = s.nextInt();

int[] a = new int[n];

for(int i=0;i<n;i++){

a[i] = s.nextInt();

}

System.out.println(UserMainCode.getMiddleElement(a));

}

}

Usermaincode

package middlearray;

public class UserMainCode {

public static int getMiddleElement(int[] a) {

int n = a.length;

return a[n/2];

}

}

59. simple string manipulation

Sample Input 1: hello Sample Output 1: llo

Sample Input 2: java Sample Output 2: Jva

Main

package stringmanipulation;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

String s1 = s.next();

System.out.println(UserMainCode.getString(s1));

}

}

Usermaincode

package stringmanipulation;

public class UserMainCode {

public static String getString(String s1) {

StringBuffer sb=new StringBuffer();

char a=s1.charAt(0);

char b=s1.charAt(1);

if(a!='j'&& b!='b')

sb.append(s1.substring(2));

else if(a=='j' && b!='b')

sb.append("j").append(s1.substring(2));

else if(a!='j' && b=='b')

sb.append(s1.substring(1));

else

sb.append(s1.substring(0));

return sb.toString();

}

}

60. date validation

Sample Input 1: 03.12.2013 Sample Output 1: valid

Sample Input 2: 03$12$2013 Sample Output 2: Invalid

Main

package datevalidation;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String s= sc.next();

int b = UserMainCode.getvalues(s);

if(b==1)

System.out.println("Valid");

else

System.out.println("Invalid");

}

}

Usermaincode

package datevalidation;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Date;

public class UserMainCode {

public static int getvalues(String s) {

if(s.matches("[0-9]{2}[.]{1}[0-9]{2}[.]{1}[0-9]{4}"))

{

SimpleDateFormat sdf=new SimpleDateFormat("dd.MM.yyyy");

sdf.setLenient(false);

try

{

Date d1=sdf.parse(s);

return 1;

} catch (ParseException e) {

return -1;

}

}

else if(s.matches("[0-9]{2}[/]{1}[0-9]{2}[/][0-9]{4}"))

{

SimpleDateFormat sdf=new SimpleDateFormat("dd/MM/yyyy");

sdf.setLenient(false);

try

{

Date d1=sdf.parse(s);

return 1;

} catch (ParseException e) {

return -1;

}

}

else if(s.matches("[0-9]{2}[-]{1}[0-9]{2}[-][0-9]{4}"))

{

SimpleDateFormat sdf=new SimpleDateFormat("dd-MM-yyyy");

sdf.setLenient(false);

try

{

Date d1=sdf.parse(s);

return 1;

} catch (ParseException e) {

return -1;

}

}

else

return -1;

}

}

61. boundary average

Sample Input : 6

3 6 9 4 2 5 Sample Output: 5.5

Main

package boundaryavg;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int s = sc.nextInt();

int a[] = new int[s];

for (int i = 0; i < s; i++)

a[i] = sc.nextInt();

System.out.println(UserMainCode.getBoundaryAverage(a));

}

}

Usermaincode

package boundaryavg;

import java.util.Arrays;

public class UserMainCode {

public static float getBoundaryAverage(int[] a) {

Arrays.sort(a);

int sum = a[0] + a[a.length - 1];

float avg = (float) sum / 2;

return avg;

}

}

62. count vowels

Sample Input: avinash Sample Output: 3

Main

package countvowels;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

String s1= s.next();

System.out.println(UserMainCode.countVowels(s1));

}

UserMainCode

package countvowels;

public class UserMainCode {

public static int countVowels(String s1) {

String s2=s1.toLowerCase();

String s3="aeiou";

int count=0;

for(int i=0;i<s2.length();i++)

{

for(int j=0;j<s3.length();j++)

{

if(s2.charAt(i)==s3.charAt(j))

{

count++;

} } }

return count;

}

}

63. month name

Sample Input: 01-06-82 Sample Output: JUNE

Main

package monthname;

import java.text.ParseException;

import java.util.Scanner;

public class Main {

public static void main(String[] args)throws ParseException {

Scanner sc=new Scanner(System.in);

String s1=sc.nextLine();

System.out.println(UserMainCode.calculateBornDay(s1));

sc.close();

}

}

UserMainCode

package monthname;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Date;

public class UserMainCode {

public static String calculateBornDay(String s1) throws ParseException{

SimpleDateFormat sdf=new SimpleDateFormat("dd-MM-yy");

SimpleDateFormat sdf1=new SimpleDateFormat("MMMM");

Date d=sdf.parse(s1);

String s=sdf1.format(d);

return s;

}

}

64. reverse substring

Sample Input: rajasthan

2 3 Sample Output: hts

Main

package reversesubstring;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s =new Scanner(System.in); String input1= s.next();

int input2=s.nextInt();

int input3=s.nextInt();

System.out.println(UserMainCode.retrieveString(input1,input2,input3));

}

}

Usermaincode

package reversesubstring;

public class UserMainCode {

public static String retrieveString(String input1, int input2, int input3) {

StringBuffer sb=new StringBuffer(input1);

sb.reverse();

String output=sb.substring(input2, input2+input3);

return output.toString();

}

}

65. string finder

Sample Input 1: Sample Output 1: geniousRajKumarDev Yes Raj Dev

Sample Input 2: Sample Output 2: geniousRajKumarDev No Dev Raj

Main

package stringfinder;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.next();

String s2=s.next();

String s3=s.next();

int b=UserMainCode.stringFinder(s1, s2, s3);

if(b==1) {

System.out.println("yes"); } else

System.out.println("No"); s.close();

}

}

UserMainCode

package stringfinder;

public class UserMainCode {

public static int stringFinder(String s1, String s2, String s3) {

String a1=s1.toLowerCase();

String a2=s2.toLowerCase();

String a3=s3.toLowerCase();

if(a1.contains(a2)&&a1.contains(a3))

{

if(a1.indexOf(a2)<a1.indexOf(a3))

{

return 1;

}

else

return 2;

}

return 0;

}

}

66. phone number validator

Sample Input 1: Sample Output 1: 265-265-7777 Valid

Sample Input 2: Sample Output 2: 265-65-7777 Invalid

Main

package phoevalidator;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.nextLine();

int b=UserMainCode.validatePhoneNumber(s1);

if(b==1)

{

System.out.println("Valid");

}

else

System.out.println("Invalid");

s.close();

}

}

UserMainCode

package phoevalidator;

public class UserMainCode {

public static int validatePhoneNumber(String s1) {

String s2 = s1.replaceAll("-", "");

if (s2.matches("[0-9]{10}"))

{

return 1;

}

else

return 2;

}

}

67. month number of days

Sample Input: 2000 1 Sample Output: 29

Main

package monthnoofdays;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int y=s.nextInt();

int c=s.nextInt();

System.out.println(UserMainCode.getNumberOfDays(y, c));

s.close();

}

}

UserMainCode

package monthnoofdays;

import java.text.SimpleDateFormat;

import java.util.Calendar;

import java.util.Date;

public class UserMainCode {

public static int getNumberOfDays(int y, int c) {

Date d=new Date();

SimpleDateFormat adf=new SimpleDateFormat("EEEEE");

Calendar cal=Calendar.getInstance();

cal.set(Calendar.YEAR, y);

cal.set(Calendar.MONTH, c);

int day=cal.getActualMaximum(Calendar.DAY\_OF\_MONTH);

return day;

}

}

68. negative string

Sample Input 1: This just a misconception Sample Output 1: This is not just a misconception

Sample Input 2: Today is misty Sample Output 2: Today is not misty

Main

package negativestring;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.nextLine();

System.out.println(UserMainCode.negativeString(s1));

s.close();

}

}

UserMainCode

package negativestring;

public class UserMainCode {

public static String negativeString(String s1) {

String str=s1.replace(" is ", " is not ");

return str;

}

}

69. validate number

Sample Input 1: -94923 Sample Output 1: 94923

Sample Input 2: -6t Sample Output 2: -1

Main

package validatenumber;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.next();

System.out.println(UserMainCode.validateNumber(s1));

s.close();

}

}

UserMainCode

package negativestring;

public class UserMainCode {

public static String validatenumber(String s1) {

String ss="-1";

if (s1.matches("[-]{1}[0-9]{1,}"))

{

String st=s1.replace("-","");

return st; }

else

return ss;

}

}

}

70. digits

Sample Input 1: 717 Sample Output 1: 2 Sample Input 2: 4534 Sample Output 2: 0

Main

package digits;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.nextLine();

System.out.println(UserMainCode.validateNumber(s1));

s.close();

}

}

UserMaincode

package digits;

public class UserMainCode {

public static int validateNumber(String s1) {

s1=s1.replaceAll("[^7]", "");

int s4= s1.length();

return s4;

}

}

71. string processing – iii (lowercase x)

Sample Input 1: hixxxx Sample Output 1: xxhixx Sample Input 2: XXxxtest Sample Output 2: XXtestxx

Main

package movelcasex;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.next();

System.out.println(UserMainCode.moveX(s1));

s.close();

}

}

UserMainCode

package movelcasex;

public class UserMainCode {

public static String moveX(String s1) {

String S2="";

String S3="";

for (int i = 0; i < s1.length(); i++) {

char c=s1.charAt(i);

if(c=='x') {

S2=S2+s1.charAt(i);

}

else

S3=S3+s1.charAt(i);

}

String s4=S3.concat(S2);

return s4;

}

}

72. string processing – iv

Sample Input 1: Sample Output 1:

HelloWorld HelWrd

Main

package getusingnthstring;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

String s1=sc.nextLine();

int n=sc.nextInt();

System.out.println(UserMainCode.getStringUsingNthCharacter (s1,n));

}

}

UserMainCode

package getusingnthstring;

public class UserMainCode {

public static String getStringUsingNthCharacter(String s1, int n) {

StringBuffer sb=new StringBuffer();

String s2=s1.replaceAll(" ","");

sb.append(s2.charAt(0));

for(int i=n-1;i<s2.length();i=i+n)

{

sb.append(s2.charAt(i));

}

return sb.toString();

}

}

73. digit comparison

Sample Input 1: 59 29

Sample Output 1: TRUE

Main

package digitcomparison;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner input=new Scanner(System.in);

int n1=input.nextInt();

int n2=input.nextInt();

boolean res=UserMainCode.compareLastDigit(n1,n2);

if(res==true)

{

System.out.println("TRUE");

}

else

{

System.out.println("FALSE");

}

input.close();

}

}

UserMainCode

package digitcomparison;

public class UserMainCode {

public static boolean compareLastDigit(int n1, int n2) {

int c1=n1%10;

int d1=n2%10;

boolean b=false;

if(c1==d1)

{ b=true;

} return b;

}

}

74. duplicates

Sample Input 1: 1 2 1 Sample Output 1: 2 Sample Input 2: 1 2 3 Sample Output 2: 6

Main

package duplicates;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner input=new Scanner(System.in);

int n1=input.nextInt();

int n2=input.nextInt();

int n3=input.nextInt();

int sum=(UserMainCode.getDistinctSum(n1,n2,n3));

System.out.println(sum);

}

}

UserMainCode

package duplicates;

public class UserMainCode {

public static int getDistinctSum(int n1, int n2, int n3) {

int sum=0;

if(n1==n2) {

sum=n3;

}

else if(n2==n3){

sum=n1;

}

else if(n3==n1) {

sum=n2;

}

else

sum=n1+n2+n3;

return sum;

}

}

75. string processing – mixmania

Sample Input 1: Mix Mania Sample Output 1: TRUE

Main

package mixmania;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String str=s.nextLine();

boolean b2=UserMainCode.checkPattern(str);

if(b2==true)

{

System.out.println("TRUE");

}

else

{ System.out.println("FALSE");

}

s.close();

}

}

UserMainCode

package mixmania;

public class UserMainCode {

public static boolean checkPattern(String str) {

String str1=str.substring(0,3);

int a=0,b=0,c=0;

char c1=str1.charAt(0);

char c2=str1.charAt(1);

char c3=str1.charAt(2);

boolean b1=false;

if(Character.isDigit(c1)||Character.isLetter(c1))

{

a=1;

}

if(c2=='i')

{

b=1;

}

if(c3=='x')

{

c=1;

}

if(a==1&&b==1&&c==1)

{

b1=true;

} return b1;

}

}

76. string processing(exchange characters)

Sample Input 1: HelloWorld Sample Output 1: delloWorlH

Main

package exchangechar;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.next();

System.out.println(UserMainCode.exchangeCharacters(s1));

s.close();

}

}

UserMaincode

package exchangechar;

public class UserMainCode {

public static String exchangeCharacters(String s1) {

String s2=s1.substring(1,s1.length()-1);

StringBuffer sb=new StringBuffer();

char c1=s1.charAt(0);

char c2=s1.charAt(s1.length()-1);

sb.append(c2).append(s2).append(c1);

return sb.toString(); }

}

77. regular expression – ii

Sample Input 1: AcB Sample Output 1: TRUE

Sample Input 2: A2B Sample Output 2: FALSE

Main

package validatestring;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.next();

boolean b1=userMainCode.validateString(s1);

if(b1==true)

{

System.out.println("TRUE");

}

else

{

System.out.println("FALSE");

} s.close();

}

}

UserMainCode

package validatestring;

public class userMainCode {

public static boolean validateString(String s1) {

boolean b=false;

if(s1.length()==3)

{

if(s1.matches("[a-zA-z]{3}"))

{

b=true;

}

}

return b;

}

}

78. strings processing – replication

Sample Input 1: Lily 2 Sample Output 1: LilyLily

Main

package replication;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner input=new Scanner(System.in);

String s1=input.nextLine();

int n=input.nextInt();

System.out.println(UserMainCode.repeatString(s1,n));

}

}

UserMainCode

package replication;

public class UserMainCode {

public static String repeatString(String s1, int n) {

StringBuffer sb=new StringBuffer();

for (int i = 0; i <n; i++) {

sb.append(s1);

}

return sb.toString();

}

}

79. sumodd

Sample Input 1: 6 Sample Output 1: 9

Main

package sumodd;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner input=new Scanner(System.in);

int n=input.nextInt();

System.out.println(UserMainCode.addoddNumbers(n));

}

}

UserMainCode

package sumodd;

public class UserMainCode {

public static int addoddNumbers(int n) {

int sum=0;

for(int i=1;i<=n;i+=2) {

sum=sum+i;

}

return sum;

}

}

80. string processing – v

Sample Input 1: 3 AAA BBB CCC Sample Output 1: AAA,BBB,CCC

Main

package concatstring;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int n=s.nextInt();

String s1[]=new String[n];

for(int i=0;i<n;i++)

{ s1[i]=s.next();

}

System.out.println(UserMainCode.concatString(n,s1));

}

}

UserMainCode

package concatstring;

public class UserMainCode {

public static String concatString(int n, String[] s1) {

StringBuffer sb=new StringBuffer();

for(int i=0;i<s1.length;i++)

{

sb.append(s1[i]).append(",");

}

String s2=sb.toString();

String s3=s2.substring(0,s2.length()-1);

return s3;

}

}

81.unique number

Sample Input 1: 12 4 3 Sample Output 1: 3

Sample Input 2: 4 -4 4 Sample Output 2: 2

Main

package uniqueNumber;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner input=new Scanner(System.in);

int a=input.nextInt();

int b=input.nextInt();

int c=input.nextInt();

System.out.println(UserMainCode.calculateUnique(a,b,c));

}

}

UserMainCode

package uniqueNumber;

public class UserMainCode {

public static int calculateUnique(int a, int b, int c) {

int d=0;

if(a!=b&&a!=c&&b!=c)

{

d=3;

}

else if(a==b&&a==c&&b==c)

{

d=1;

}

else if((a!=b&&a==c&&b==c) || (a!=b&&a!=c&&b==c))

{ d=2;

}

else if((a==b&&a!=c&&b==c) || (a==b&&a!=c&&b!=c))

{

d=2;

}

else if((a==b&&a==c&&b!=c) || (a!=b&&a==c&&b!=c))

{

d=2;

}

return d;

}

}

82. math calculator

Sample Input 1: 23 2 \*

Sample Output 1: 46

Main

package mathcalculator;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int a=s.nextInt();

int b=s.nextInt();

char c = s.next().trim().charAt(0);

System.out.println(UserMainCode.calculator(a, b, c));

s.close();

}

}

UserMainCode

package mathcalculator;

public class UserMainCode {

public static int calculator(int a, int b, char c) {

int a1=0;

if(c=='\*')

{

a1=a\*b;

}

else if(c=='+')

{

a1=a+b;

}

else if(c=='-')

{ a1=a-b;

}

else if(c=='/')

{

a1=a/b;

}

else if(c=='%')

{

a1=a%b;

}

return a1;

}

}

83. scores

Sample Input 1: 3 1 100 100 Sample Output 1: TRUE

Sample Input 2: 3 100 1 100 Sample Output 2: FALSE

Main

package scores;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

int[] arr = new int[n];

for(int i=0;i<n;i++)

{

arr[i] = sc.nextInt();

}

System.out.println(UserMainCode.checkScores(arr, n));

sc.close();

}

}

UserMainCode

package scores;

public class UserMainCode {

public static boolean checkScores(int[] arr, int n) {

boolean b = false;

for(int i=0;i<n-1;i++)

{

if(arr[i] == 100)

{

if(arr[i+1] == 100)

{

b = true;

break;

}

}

}

return b;

}

}

84. arrayfront

Sample Input 1: 6 1 2 3 4 5 6 Sample Output 1: FALSE

Sample Input 2: 3 1 2 9 Sample Output 2: TRUE

Main:

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int s=sc.nextInt();

int []a=new int[s];

for(int i=0;i<s;i++)

{

a[i]=sc.nextInt();

}

if(UserMainCode.scanArray(a)==true)

System.out.println("TRUE");

else

System.out.println("FALSE");

sc.close();

}

}

UserMainCode

package arrayfont;

public class UserMainCode {

public static boolean scanArray(int[] a) {

int u=0,l=0;

boolean b=false;

if(a.length>=4)

l=4;

else

l=a.length;

for(int i=0;i<l;i++)

if(a[i]==9)

u=10;

if(u==10)

b=true;

return b;

}

}

85. word count

Sample Input 1: 4 a bb b ccc 1 Sample Output 1: 2

Sample Input 2: 5 dog cat monkey bear fox 3 Sample Output 2: 3

Main

package wordcount;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

String[] str=new String[n];

for(int i=0;i<n;i++)

{

str[i]=sc.next();

}

int c=sc.nextInt();

System.out.println(UserMainCode.countWord(n,str,c));

sc.close();

}

}

UserMainCode

package wordcount;

public class UserMainCode {

public static int countWord(int n, String[] str, int c) {

int count=0;

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

{

if(str[i].length()==c)

{

count++;

}

}

return count;

}

}

86. find distance

Sample Input 1: 3 4 5 2 Sample Output 1: 3

Sample Input 2: 3 1 5 2 Sample Output 2: 2

Main

package finddistance;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int a=s.nextInt();

int b=s.nextInt();

int c=s.nextInt();

int d=s.nextInt(); System.out.println(UserMainCode.findDistance(a,b,c,d));

s.close();

}

}

UserMainCode

package finddistance;

public class UserMainCode {

public static int findDistance(int a, int b, int c, int d) {

long q=(int)Math.round(Math.sqrt(((a-c)\*(a-c))+((b-d)\*(b-d))));

return (int) q;

}

}

87. word count – ii

Sample Input 1: Today is Sunday Sample Output 1: 3

Main

package wordcount2;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.nextLine();

System.out.println(UserMainCode.countWord(s1));

s.close();

}

}

UserMainCode

package wordcount2;

import java.util.StringTokenizer;

public class UserMainCode {

public static int countWord(String s1) {

StringTokenizer st=new StringTokenizer(s1," ");

int n=st.countTokens();

return n;

}

}

88. sum of max & min

Sample Input 1: 12 17 19 Sample Output 1: 31

Main

package sumofmaxmin;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int a=s.nextInt();

int b=s.nextInt();

int c=s.nextInt();

System.out.println(UserMainCode.getSumMaxMin(a,b,c));

s.close();

}

}

UserMainCode

package sumofmaxmin;

public class UserMainCode {

public static int getSumMaxMin(int a, int b, int c) {

int d=0;

if(a<b&&b<c)

{

d=a+c;

}

else if(a<b&&b>c)

{

d=b+c;

}

else if(a>b&&b<c)

{

d=a+b;

}

return d;

}

}

89. decimal to binary conversion

Sample Input 1: 5 Sample Output 1: 101

Main

package deci2binaryconv;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int n=s.nextInt();

System.out.println(UserMainCode.convertDecimalToBinary(n));

s.close();

}

}

UserMainCode

package deci2binaryconv;

public class UserMainCode {

public static long convertDecimalToBinary(int n) {

String s1=Integer.toBinaryString(n);

long y=Long.parseLong(s1);

return y;

}

}

90.string processing – v

Sample Input 1: Hello 2 Sample Output 1: lolo

Sample Input 2: Hello 3 Sample Output 2: Llollollo

Main

package lastrepeatedchar;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.nextLine(); int n1=s.nextInt();

System.out.println(UserMainCode.returnLastRepeatedCharacters(s1,n1));

s.close();

}

}

UserMainCode

package lastrepeatedchar;

public class UserMainCode {

public static String returnLastRepeatedCharacters(String s1, int n1) {

StringBuffer sb = new StringBuffer();

for(int i = 0 ; i < n1 ; i++)

sb.append(s1.substring(s1.length()-n1, s1.length()));

return sb.toString();

}

}

91.regular expression – iii

Sample Input 1: ab2 Sample Output 1: TRUE

Sample Input 2: 72CAB Sample Output 2: FALSE

Main

package firstnotnum;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.nextLine();

if(UserMainCode.validateString(s1)==true) System.out.println("TRUE");

else System.out.println("FALSE");

s.close();

}

}

UserMainCode

package firstnotnum;

public class UserMainCode {

public static boolean validateString(String s1) {

boolean b=false;

if(s1.charAt(0)=='0'||s1.charAt(0)=='1'||s1.charAt(0)=='2'||s1.charAt(0)=='3'

|| s1.charAt(0)=='4'||s1.charAt(0)=='5'||s1.charAt(0)=='6'||s1.charAt(0)=='7'

||s1.charAt(0 )=='8'||s1.charAt(0)=='9'){

b=false;

}

else

b=true;

return b;

}

}

92.string processing – trimcat

Sample Input 1: Hello Sample Output 1: Hlo

Main

package trimcat;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.nextLine();

System.out.println(UserMainCode.getAlternateChars(s1));

s.close();

}

}

UserMainCode

package trimcat;

public class UserMainCode {

public static String getAlternateChars(String s1) {

StringBuffer sbf = new StringBuffer();

for(int i = 0; i < s1.length() ; i=i+2)

{ sbf.append(s1.charAt(i));

}

String str = sbf.toString();

return str;

}

}

93. string processing – username

Sample Input 1: admin@xyz.com Sample Output 1: admin

Main

package username;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in); String s1=s.nextLine();

System.out.println(UserMainCode.fetchUserName(s1));

s.close();

}

}

UserMainCode

package username;

import java.util.StringTokenizer;

public class UserMainCode {

public static String fetchUserName(String s1) {

StringTokenizer st=new StringTokenizer(s1,"@");

String s2=st.nextToken();

return(s2);

}

}

94. string processing – vii

Sample Input 1: AAAA abab 2 Sample Output 1: TRUE

Sample Input 2: MNOP QRST 3 Sample Output 2: FALSE

Main

package isequalstring;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.nextLine();

String s2=s.nextLine();

int n=s.nextInt();

boolean output=UserMainCode.isEqual(s1,s2,n);

System.out.println(output);

s.close();

}

}

UserMainCode

package isequalstring;

public class UserMainCode {

public static boolean isEqual(String s1, String s2, int n) {

boolean a=false;

if(n<s1.length()&&n<s2.length())

{

char c=s1.charAt(n);

char d=s2.charAt(s2.length()-n);

String s3=Character.toString(c);

String s4=Character.toString(d);

if(s3.equalsIgnoreCase(s4))

{

a=true;

}

else

{

a=false;

}

}

return a;

}

}

95. largest difference

Sample Input 1: 7 2 4 5 1 9 3 8 Sample Output 1: 4

Main

package largestdiff;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int m=s.nextInt();

int[] n1=new int[m];

for(int i=0;i<m;i++){

n1[i]=s.nextInt();

}

System.out.println(UserMainCode.checkDifference(n1)); s.close();

}

}

UserMainCode

package largestdiff;

public class UserMainCode {

public static int checkDifference(int[] n1) {

int n2,n3=0,n4=0,i; for(i=0;i<n1.length-1;i++)

{

n2=Math.abs(n1[i]-n1[i+1]);

if(n2>n3){ n3=n2; n4=i+1;

}

}

return n4;

}

}