LEVEL 2

1.start case

Sample Input:

Now is the time to act!

Sample Output:

Now Is The Time To Act!

MAIN CLASS:

import java.util.Scanner;

public class Startcase {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner s=new Scanner(System.in);

String s1=s.nextLine();

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

s.close();

}

}

USER MAIN CODE:

import java.util.StringTokenizer;

import level2.UserMainCode;

import level2.userMainCode;

// TODO Auto-generated method stub

StringBuffer sb=new StringBuffer();

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

while(t.hasMoreTokens())

{ String s2=t.nextToken();

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

String s4=s2.substring(1, s2.length()); sb.append(s3.toUpperCase()).append(s4).append(" ");

}

return sb.toString();

}

}

2.maximum difference

Sample Input :

6

4

8

6

1

9

4

Sample Output :

4

Main class:

public class Maxdiff {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner s=new Scanner(System.in);

int n=s.nextInt();

int a[]=new int[20]; for(int i=0;i<n;i++)

{

a[i]=s.nextInt();

}

int max=UserMainCode.findMaxDistance(a);

System.out.println(max);

s.close();

}

}

User main code:

import java.util.StringTokenizer;

public class UserMainCode {

static int findMaxDistance(int[] a)

{

int max=0,index=0;

for(int i=0;i<19;i++)

{

int d=Math.abs(a[i]-a[i+1]);

if(d>max)

{

max=d;

if(a[i]>a[i+1])

{

index=i;

}

else

{

index=i+1;

}

}

}

return index;

}

}

3.palindrome-in range

Sample Input :

130

150

Sample Output :

272

(131+141 = 272)

Main class:

import java.util.Scanner;

public class Palinrange {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner s=new Scanner(System.in);

int n1=s.nextInt();

int n2=s.nextInt();

System.out.println(UserMainCode.addPalindromes(n1,n2));

s.close();

}

}

User main code:

import java.util.StringTokenizer;

public class UserMainCode {

public static int addPalindromes(int n1, int n2) {

// TODO Auto-generated method stub

int sum=0;

for(int i=n1;i<=n2;i++){ int r=0,n3=i; while(n3!=0){ r=(r\*10)+(n3%10);

n3=n3/10;

}

if(r==i) sum=sum+i;

}

return sum;

}

}

4.pan card

Sample Input 1:

ALD3245E

Sample Output 1:

Valid

Sample Input 2:

OLE124F

Sample Output 2:

Invalid

Main class:

import java.util.Scanner;

public class Pancard {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner s=new Scanner(System.in);

String s1=s.nextLine();

UserMainCode.validatePAN(s1);

s.close();

}

}

User main code:

import java.util.StringTokenizer;

public class UserMainCode {

public static void validatePAN(String s1) {

// TODO Auto-generated method stub

if(s1.matches("[A-Z]{3}[0-9]{4}[A-Z]{1}"))

{

System.out.println("Valid");

}

else

System.out.println("Invalid");

}

}

5.fibonacci sum

Sample Input :

5

Sample Output :

7

[0 + 1 + 1 + 2 + 3 = 7]

Main class:

import java.util.Scanner;

public class Fibo {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner s=new Scanner(System.in);

int n=s.nextInt();

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

s.close();

}

}

User main code:

import java.util.StringTokenizer;

public class UserMainCode {

public static int getSumOfNfibos(int n) {

// TODO Auto-generated method stub

int a=-1,b=1,c=0,d=0;

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

{

c=a+b; d=d+c; a=b; b=c;

}

return d;

}

}

6.test vowels

Sample Input 1:

acbisouzze

Sample Output 1:

Yes

Sample Input 2:

cbisouzze

Sample Output 2:

No

Main class:

import java.util.Scanner;

public class Vowel {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner s=new Scanner(System.in);

String s1=s.nextLine();

int b=UserMainCode.testVowels(s1);

if(b==1)

System.out.println("Yes");

else

System.out.println("No");

s.close();

}

}

User main class:

import java.util.StringTokenizer;

public class UserMainCode {

public static int testVowels(String s1) {

// TODO Auto-generated method stub

int b;

int n1=0,n2=0,n3=0,n4=0,n5=0;

String s2=s1.toLowerCase(); for(int i=0;i<s2.length();i++){ char c=s2.charAt(i); if(c=='a')

n1++;

if(c=='e') n2++;

if(c=='i') n3++;

if(c=='o') n4++;

if(c=='u') n5++;}

if(n1==1&&n2==1&n3==1&&n4==1&&n5==1) b=1;

else b=2;

return b;

}

7.dash check

Sample Input 1:

Hi--there-you 12--(134)-753

Sample Output 1:

Yes

Sample Input 2:

-15-389

-xyw-zzy

Sample Output 2:

No

Main class:

import java.util.Scanner;

public class Dash {

public static void main(String[] args) {

// TODO Auto-generated method stub

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

String s2=s.nextLine();

int p=UserMainCode.compareDashes(s1,s2);

if(p==1) System.out.println("Yes"); else

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

}

}

User main code:

import java.util.ArrayList;

import java.util.StringTokenizer;

public class UserMainCode {

public static int compareDashes(String s1, String s2) {

// TODO Auto-generated method stub

ArrayList<Integer>l1=new ArrayList<Integer>();

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

{

if(s1.charAt(i)=='-')

{

l1.add(i);

}

}

ArrayList<Integer>l2=new ArrayList<Integer>();

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

{

if(s2.charAt(i)=='-')

{

l2.add(i);

}

}

if(l1.equals(l2))

{

return 1;

}

else

return 2;

}

}

8.reverse split

Sample Input:

Rabbit

-

Sample Output:

t-i-b-b-a-R

Main class:

import java.util.Scanner;

public class Reversesplit {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner s=new Scanner(System.in);

String s1=s.nextLine();

String s2=s.next();

System.out.println(UserMainCode.reShape(s1,s2));

s.close();

}

}

User main code:

public class UserMainCode {

public static String reShape(String s,String s1){

StringBuffer sb=new StringBuffer(s);

StringBuffer sb2=new StringBuffer();

String s2=sb.reverse().toString();

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

{

sb2.append(s2.charAt(i)); sb2.append(s1);

}

sb2.deleteCharAt(sb2.length()-1);

return sb2.toString();

}}

9.remove 10's

Sample Input :

5

1

10

20

10

2

Sample Output :

1

20

main class:

import java.io.IOException;

import java.util.Scanner;

public class Removes10 {

public static void main(String[] args) throws IOException,Exception{

Scanner sc = new Scanner(System.in); int i;

int n = sc.nextInt();

int a[] = new int[n];

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

a[i] = sc.nextInt();

}

UserMainCode.removeTens(a);

sc.close();

}

}

user main code:

import java.util.ArrayList;

import java.util.Scanner;

import java.util.StringTokenizer;

public class UserMainCode {

public static void removeTens(int a[])

{ Scanner sc = new Scanner(System.in);

int i,k = 0;

int b[] = new int[a.length];

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

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

if (a[i] != 10) {

al.add(a[i]);

}

}

int b1[] = new int[a.length];

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

{ b1[i] = al.get(i);

System.out.println(b1[i]);

}

}

}

10. last letters

Smaple Input : This is a cat Sample

Output : S$S$A$T

main class:

import java.util.Scanner;

public class Lastletters {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner s=new Scanner(System.in);

String input=s.nextLine();

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

}

}

user main code:

import java.util.StringTokenizer;

public class UserMainCode {

public static String getLastLetter(String input)

{ String str1=null;

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

StringBuffer sb=new StringBuffer();

while(st.hasMoreTokens()){

str1=st.nextToken();

String str2=str1.substring(str1.length()-1);

String str3= str2.toUpperCase();

sb.append(str3).append("$");

}

sb.deleteCharAt(sb.length()-1);

return sb.toString();

}

}

11.largest key in hashmap

Sample Input 1:

3

12

amron 9

Exide 7

SF

Sample Output 1:

Amron

main class:

import java.util.HashMap;

import java.util.Scanner;

public class largestkey {

public static void main(String[] args) {

// TODO Auto-generated method stub

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

Scanner s=new Scanner(System.in);

int n=s.nextInt();

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

{

int a=s.nextInt(); String s1=s.next(); hm.put(a,s1);

}

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

}

}

user main code:

import java.util.HashMap;

import java.util.Iterator;

import java.util.StringTokenizer;

public class UserMainCode {

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

int max=0; String s3=null;

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

while(itr.hasNext())

{

int b=itr.next();

if(b>max)

{

max=b; s3=hm.get(b);

}

}

return (s3);

}

}

12.all numbers

Sample Input 1:

4

123

24.5

23

one

Sample Output 1:

invalid

Sample Input 2:

2

123

24.5

Sample Output 2:

valid

main class:

import java.util.Scanner;

public class Allnumbers {

public static void main(String[] args) {

// TODO Auto-generated method stub

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();

}

int out=(userMainCode.validateNumber(s1));

if(out==1) {

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

else {

System.out.println("invalid");

}

}

}

user main code:

import java.util.HashMap;

class userMainCode{

public static int validateNumber(String[] s1)

{ int b =0 ,count,out=0;

for(int i=0;i<s1.length;i++){ String s2 = s1[i]; if(s2.matches("[0-9.]{1,}"))

{ count =0;

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

{

char c = s2.charAt(j); if(c=='.')

count++;

}

if(count>1)

b=1;

}

else b=1;

}

if(b==0){ out=1;

}

else out=-1;

return out;

}

}

13.day of the week

Sample Input 1:

07-13-2012

Sample Output 1:

Friday

main class:

import java.text.ParseException;

import java.util.Scanner;

public class Dayofweek {

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

{

Scanner sc=new Scanner(System.in);

String s1=sc.nextLine();

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

}

}

user main code:

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Date;

public class UserMainCode{

public static String getDay(String s1) throws ParseException

{

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

SimpleDateFormat sdf1=new SimpleDateFormat("EEEEE");

Date d=sdf.parse(s1);

String s=sdf1.format(d);

return s;

}

}

14.max substring

Sample Input 1:

delhi-pune-patna

-

Sample Output 1:

delhi

main class:

import java.util.Scanner;

public class maxsubsring {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner sc=new Scanner(System.in);

String input1=sc.next();

String input2=sc.next();

System.out.println(UserMainCode.extractMax(input1,input2));

}

}

user main code:

import java.util.StringTokenizer;

public class UserMainCode{

public static String extractMax(String input1,String input2){

int max=0; String s3=null;

StringTokenizer st=new StringTokenizer(input1,"-");

while( st.hasMoreTokens())

{

String s2=st.nextToken(); int n=s2.length(); if(n>max)

{

max=n; s3=s2;

}

}

return(s3);

}}

15.states and capitals

Sample Input 1:

3

Karnataka

Bangaluru

Punjab

Chandigarh

Gujarat

Gandhinagar

Punjab

Sample Output 1:

chandigarh$punjab

main class:

import java.util.HashMap;

import java.util.Scanner;

public class Statesandcapital {

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

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

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

{

String s1=sc.next();

String s2=sc.next();

hm.put(s1,s2);

}

String sa=sc.next();

System.out.print(UserMainCode.getCapital(hm,sa));

}

}

user main code:

import java.util.HashMap;

import java.util.Iterator;

public class UserMainCode{

public static String getCapital(HashMap<String,String> hm,String sa)

{

String chan=null;

Iterator<String>it=hm.keySet().iterator();

StringBuffer sb=new StringBuffer();

while(it.hasNext()){

String a=it.next();

if(a.equals(sa))

{

chan=hm.get(a);

sb.append(chan).append("$").append(sa);

}

}

return sb.toString();

}

}

17.vowels,arrays&arrayslist

Sample Input 1:

4

abcde

pqrs

abci

orto

Sample Output 1:

abcde

abci

orto

main class:

import java.util.ArrayList;

import java.util.Iterator;

import java.util.Scanner;

public class Vowelsarrayarraylist {

public static void main(String[] args) {

int n;

Scanner sc=new Scanner(System.in);

n=Integer.parseInt(sc.nextLine());

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

{

str[i]=sc.nextLine();

}

ArrayList<String> arr=new ArrayList<String>();

arr=UserMainCode.matchCharacter(str);

Iterator<String> it=arr.iterator(); while(it.hasNext())

{

System.out.println(it.next());

}

}}

user main code:

import java.util.ArrayList;

public class UserMainCode{

public static ArrayList<String> matchCharacter (String[] ss)

{

ArrayList<String> as=new ArrayList<String>();

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

{

String sp=ss[i];

char[] mp=sp.toLowerCase().toCharArray();

if((mp[0]=='a'||mp[0]=='e'||mp[0]=='i'||mp[0]=='o'||mp[0]=='u')&&(mp[sp.length()-

1]=='a'||mp[sp.length()-1]=='e'||mp[sp.length()- 1]=='i'||mp[sp.length()-

1]=='o'||mp[sp.length()-1]=='u'))

{

as.add(sp);

}

}

return as;

}

}

18.transfer from hashmap to arraylist

Sample Input 1:

4

1

ravi5raJ

2

sita8gitA

3

ram8sitA

4

rahul

Sample Output 1:

ravi5raJ

sita8gitA

ram8sitA

main class:

import java.io.IOException;

import java.util.ArrayList;

import java.util.HashMap;

import java.util.Iterator;

import java.util.Scanner;

public class hashtoarraylist {

public static void main(String[] args) throws IOException,Exception {

HashMap<Integer,String> hm1=new HashMap<Integer,String>();

int n;

Scanner sc=new Scanner(System.in); n=Integer.parseInt(sc.nextLine()); for(int i=0;i<n;i++)

{

hm1.put(Integer.parseInt(sc.nextLine()),sc.nextLine());

}

ArrayList<String> al1=new ArrayList<String>();

al1=UserMainCode.getName(hm1);

Iterator<String> it=al1.iterator();

while(it.hasNext())

{

System.out.println(it.next());

}

}

}

user main code:

import java.util.ArrayList;

import java.util.HashMap;

import java.util.Iterator;

public class UserMainCode{

public static ArrayList<String> getName(HashMap<Integer,String> hm1)

{

ArrayList<String> al2=new ArrayList<String>();

Iterator<Integer> it =hm1.keySet().iterator();

while(it.hasNext())

{

int id=it.next();

String name=hm1.get(id);

if(name.matches("[a-z]{1,}.\*[0-9]{1,}.\*[A-Z]{1}")) al2.add(name);

}

return al2;

}

}

19.max admissions

Sample Input 1:

4

2010

200000

2011

300000

2012

45000

2013

25000

Sample Output 1:

2011

main class:

20.sum non prime numbers

Sample Input:

9

Sample Output:

28

main class:

import java.util.Scanner;

public class Sumnonprimenumbers {

public static void main(String[] args) {

{

Scanner s=new Scanner(System.in);

int n=s.nextInt();

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

}

}

}

user main code:

public class UserMainCode{

public static int addNumbers(int n) {

int sum=0;int k=0;int sum1=0;

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

{ k=0;

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

{

if(i%j==0) k++;

}

if(k!=2)

{

sum=sum+i;

}

}

return sum;

}

}

21.date format conversion

Sample Input:

12/11/1998

Sample Output:

12-11-98

main claass:

import java.util.Scanner;

public class Datefromatconv {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.next();

UserMainCode.convertDateFormate(s1);

}

}

user main code:

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Date;

public class UserMainCode{

public static void convertDateFormate(String s1) {

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

sdf.setLenient(false);

try {

Date d1=sdf.parse(s1);

SimpleDateFormat sdf1=new SimpleDateFormat("dd-MM-yy");

String s2=sdf1.format(d1);

System.out.println(s2);

}

catch (ParseException e)

{ e.printStackTrace();

}

}

}

22.valid date

Sample Input 1:

12.03.2012

Sample Output 1:

Valid

Sample Input 2:

27#01#1977

Sample Output 2:

Invalid

main class:

import java.text.ParseException;

import java.util.Scanner;

public class Validdate {

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

{

Scanner s=new Scanner(System.in);

String s1=s.next();

int b=UserMainCode.dateformat(s1); if(b==1)

{

System.out.println("Valid");

}

else

{

System.out.println("Invalid");

}

s.close();

}

}

user main code:

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Date;

public class UserMainCode{

public static int dateformat(String s1) throws ParseException

{

String s2=" ";

int n=-1;

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

{

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

Date d=sdf.parse(s1);

s2=sdf.format(d);

n=1;

}

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

{

SimpleDateFormat sdf1=new SimpleDateFormat("dd/MM/yy");

Date d1=sdf1.parse(s1);

s2=sdf1.format(d1);

n=1;

}

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

{

SimpleDateFormat sdf2=new SimpleDateFormat("dd-MM-yyyy");

Date d2=sdf2.parse(s1);

s2=sdf2.format(d2);

n=1;

}

else

{

n=-1;

}

return n;

}}

23.convert format

Sample Input:

555-666-1234

Sample Output:

55-56-661-234

main class:

import java.util.Scanner;

public class Convertformat {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

String s=sc.next();

System.out.println(UserMainCode.convertFormate(s));

}

}

user main code:

import java.util.StringTokenizer;

public class UserMainCode{

public static String convertFormate(String s) {

StringTokenizer t=new StringTokenizer(s,"-");

String s1=t.nextToken();

String s2=t.nextToken(); String s3=t.nextToken();

StringBuffer sb=new StringBuffer();

sb.append(s1.substring(0, s1.length()-1)).append('-');

sb.append(s1.charAt(s1.length()-1)).append(s2.charAt(0)).append('-');

sb.append(s2.substring(1, s2.length())).append(s3.charAt(0)).append('-');

sb.append(s3.substring(1, s3.length()));

return sb.toString();

}

}

24.add and reverse

Sample Input

6

10

15

20

25

30

100

15

Sample Output

571

main class:

25.next year day

Sample Input:

13/07/2012

Sample Output:

Saturday

main class:

import java.util.Scanner;

public class Nextyearday {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner sc=new Scanner(System.in);

String s1=sc.next();

UserMainCode u=new UserMainCode();

{

System.out.println(u.nextYearDay(s1));

}

}

}

user main class:

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Calendar;

import java.util.Date;

public class UserMainCode{

public String nextYearDay(String s1)

{

String s=null;

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

try {

Date d1=sdf.parse(s1);

Calendar cal=Calendar.getInstance(); cal.setTime(d1); cal.add(Calendar.YEAR, 1);

Date d2=cal.getTime();

SimpleDateFormat sdf1=new SimpleDateFormat("EEEEE"); s=sdf1.format(d2);

}

catch (ParseException e)

{

e.printStackTrace();

}

return s;

}

}

26.sum squares of digit

Sample Input:

321

Sample Output:

14

main class:

import java.util.Scanner;

public class Sumsquaresofdigit {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int n=s.nextInt();

UserMainCode.getSumOfSquaresOfDigits(n);

s.close();

}

}

user main code:

public class UserMainCode{

public static void getSumOfSquaresOfDigits(int n) {

int a=n; int rem=0; int sum=0; while(a!=0)

{

rem=a%10; sum=sum+(rem\*rem); a=a/10;

}

System.out.println(sum);

}

}

27.even and odd index sum

Sample Input 1:

23050

Sample Output 1:

no

Sample Input 2:

231

Sample Output 2:

Yes

main class:

import java.util.Scanner;

public class Evenandoddindexsum {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

UserMainCode.sumOfOddEvenPositioned(n); sc.close();

}

}

user main code:

public class UserMainCode{

public static void sumOfOddEvenPositioned(int n) {

int rem = 0, i = 0; int a[] = new int[10]; while (n > 0) {

rem = n % 10; a[i] = rem;

n = n / 10; i++;

}

int sume = 0, sumo = 0;

for (int j = i - 1; j >= 0; j--) {

if(j%2!=0)

{

sumo = sumo + a[j];

}

else

{

sume = sume + a[j];

}

}

if (sume == sumo) { System.out.println("Yes");

} else

System.out.println("No");

}

}

28.remove 3 multiples

Sample Input:

6

3

1

11

19

17

19

Sample Output

3

1

19

17

main class:

29.string occurences

Sample Input 1:

catcowcat cat

Sample Output 1:

2

Sample Input 2:

catcowcat CAT

Sample Output 2:

0

main class:

import java.util.Scanner;

public class stringoccurences {

public static void main(String[]args){

Scanner sc=new Scanner(System.in);

String s=sc.nextLine();

String s1=sc.nextLine();

System.out.println(UserMainCode.getSubstring(s, s1));

sc.close();

}

}

user main code:

import java.util.ArrayList;

public class UserMainCode{

public static int getSubstring(String s,String s1){

int t=s1.length();

int count=0;

for(int i=0;i<s.length()-t+1;i++)

{

String s3=s.substring(i,t+i); if(s3.equals(s1))

{

count++;

}

}

return count;

}

}

30.programming logic

Sample Input 1:

1

2

3

Sample Output 1:

6

Sample Input 2:

1

2

13

Sample Output 2:

3

Sample Input 3:

13

3

8

Sample Output 3:

8

main class:

import java.util.Scanner;

public class Programminglogic {

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.getluckySum(a,b,c));

}

}

user main code:

import java.util.ArrayList;

public class UserMainCode{

public static int getluckySum(int a, int b, int c)

{

if(a == 13)

return 0;

if(b == 13)

return a;

if(c == 13)

return (a + b);

return (a + b + c);

}

}

31.triplets

Sample Input 1:

7

3

3

5

5

5

2

3

Sample Output 1:

TRUE

Sample Input 2:

7

5

3

5

1

5

2

3

Sample Output 2:

FALSE

main class:

import java.util.Scanner;

public class triplets {

public static void main(String[] args)

{

int n;

Scanner sc=new Scanner(System.in);

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

{

a[i]=sc.nextInt();

}

boolean s=UserMainCode.checkTripplets(a);

if(s==true)

System.out.println("TRUE");

else

System.out.println("FALSE");

}

}

user main code:

public class UserMainCode{

public static boolean checkTripplets(int[] a)

{

boolean b=false;

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

{

if((a[i]==a[i+1])&&(a[i+1]==a[i+2]))

{

b=true;

}

}

return b;

}

}

32.repeat font

Sample Input 1:

Coward

2

Sample Output 1:

CowCow

Sample Input 2:

So 3

Sample Output 2:

SoSoSo

main class:

import java.util.Scanner;

public class repeatfont {

public static void main(String []args){

Scanner sc=new Scanner(System.in);

String s=sc.nextLine();

int n=Integer.parseInt(sc.nextLine());

System.out.println(UserMainCode.repeatFirstThreeCharacters(s,n));

sc.close();}

}

user main code:

public class UserMainCode{

public static String repeatFirstThreeCharacters(String s,int n)

{

StringBuffer sb=new StringBuffer();

StringBuffer sb1=new StringBuffer();

if(s.length()>3)

{ sb.append(s.substring(0,3)); s=sb.toString();

}

for(int i=0;i<n;i++) sb1.append(s);

return sb1.toString();

}

}

33.sorted array

Sample Input 1:

6

AAA

BBB

AAA

AAA

CCC

CCC

Sample Output 1:

AAA

BBB

CCC

Sample Input 2:

7

AAA

BBB

aaa

AAA

Abc

A

b

Sample Output 2:

A

AAA

Abc

BBB

aaa

b

main class:

import java.util.Scanner;

public class sortedearray {

public static void main(String[] args)

{

int n;

Scanner sin = new Scanner(System.in);

n = sin.nextInt();

String[] a1 = new String[n];

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

{

a1[i] = sin.next();

}

a1 = UserMainCode.orderElements(a1);

for(int i=0;i<a1.length;i++)

System.out.println(""+a1[i]);

}

}

user main class:

import java.util.Arrays;

import java.util.HashSet;

import java.util.Iterator;

public class UserMainCode{

public static String[] orderElements(String[] arr)

{

HashSet<String> al=new HashSet<String>();

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

{

al.add(arr[i]);

}

Iterator<String> itr=al.iterator();

String ar[] = new String[al.size()];

int i =0 ;

while(itr.hasNext()){

ar[i] = itr.next(); i++;

}

Arrays.sort(ar);

return ar;

}

}

34.pattern matcher

Sample Input 1:

CPT-302020

Sample Output 1:

TRUE

Sample Input 2:

CPT123412

Sample Output 2:

FALSE

main class:

import java.util.Scanner;

public class Patternmatcher {

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

String s = sc.next();

System.out.println(UserMainCode.CheckID(s));

sc.close();

}

}

user main class:

public class UserMainCode{

public static boolean CheckID(String s)

{

boolean b=false;

if(s.matches("(CPT)[-]{1}[0-9]{6}"))

{

b=true;

}

else

{

b=false;

}

return b;

}

}

36.regular expression 1

Sample Input 1:

vR4u

Sample Output 1:

TRUE

Sample Input 2:

vRau

Sample Output 2:

FALSE

Sample Input 3:

vrau

Sample Output 3:

FALSE

main class:

import java.util.Scanner;

public class regularexpression {

public static void main(String []args){

Scanner sc=new Scanner(System.in);

String n=sc.nextLine();

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

sc.close();

}

}

user main code:

public class UserMainCode{

public static String validate(String s)

{

String w="FALSE";

if(s.length()==4 && (Character.isDigit(s.charAt(0))||Character.isAlphabetic(s.charAt(0)))&&s.charAt(1)

=='R')

{

if(Character.isDigit(s.charAt(2))) w="TRUE";

}

return w;

}

}

38.regular expression-3

Sample Input 1:

9987684321

Sample Output 1:

TRUE

Sample Input 2:

0014623452

Sample Output 2:

FALSE

main class:

import java.util.Scanner;

public class re3 {

public static void main(String[]args){

Scanner s=new Scanner(System.in);

String s1=s.nextLine();

boolean b1=UserMainCode.validatePhone(s1);

if(b1==true)

{ //phone validation pg.no:151

System.out.println("TRUE");

}

else

{

System.out.println("FALSE");

}

s.close();

}

}

user main code:

public class UserMainCode{

public static boolean validatePhone(String s1)

{

boolean b=false;

if(s1.matches("[0]{1}[0]{1}[0-9]{8}") )

{

b=false;

}

//phone validation pg.no:151

else

{

b=true;

}

return b;

}

}

39.string splitter

Sample Input 1:

AAA/bba/ccc/DDD

/

Sample Output 1:

aaa

abb

ccc

ddd

main classs:

import java.util.Scanner;

public class stringsplitter {

public static void main(String[] args)

{

Scanner s = new Scanner(System.in); String ip1=s.next();

char ip2='/';

String op[]=UserMainCode.manipulateLiteral(ip1,ip2);

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

System.out.println(op[i]);

s.close();

}}

user main code:

import java.util.ArrayList;

import java.util.StringTokenizer;

public class UserMainCode{

public static String[] manipulateLiteral(String ip1, char ip2)

{

StringTokenizer t1 = new StringTokenizer(ip1,"/");

ArrayList<String> lst = new ArrayList<String>();

while(t1.hasMoreTokens())

{

StringBuffer sb = new StringBuffer();

sb.append(t1.nextToken().toLowerCase());

lst.add(sb.reverse().toString());

}

String[] op = new String[lst.size()];

for(int i = 0;i<lst.size();i++)

{

op[i] = lst.get(i);

}

return op;

}

}

40.vowel count

Sample Input 1:

NewYork

Sample Output 1:

2

Sample Input 2:

Elephant

Sample Output 2:

3

main class:

import java.util.Scanner;

public class Vowelcount {

public static void main(String[]args) // Second set: 40.Vowel Count//

{

Scanner sc=new Scanner(System.in);

String s=sc.nextLine();

int max=UserMainCode.tellVowelCount(s);

System.out.println(max);

}}

user main code:

public class UserMainCode{

public static int tellVowelCount(String s)

{

int max=0;

int count=0;

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

{

char c=s.charAt(i); if(c=='a'||c=='e'||c=='i'||c=='o'||c=='u'||c=='A'||c=='E'||c=='I'|| c=='O'||c=='U')

{

count++;

}

}

if(count>max)

{

max=count;

}

return max;

}

}

41.playing with string 2

Sample Input 1:

5

AAA

BB

CCCC

A

ABCDE

Sample Output 1:

a

aaa

abcde

bb

cccc

main class:

import java.util.Scanner;

public class playingwithstring {

public static void main(String[] args) {

Scanner s=new Scanner(System.in); int n=s.nextInt();

String s1[]=new String[n]; String s2[]=new String[n];

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

{

s1[i]=s.next();

}

s2=UserMainCode.sortArray(s1,n);

for (int i = 0; i < n; i++) { System.out.println(s2[i]);

}

s.close();

}}

user main code:

import java.util.Arrays;

public class UserMainCode{

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

String s2[]=new String[n];

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

{

s2[i]=s1[i].toLowerCase();

}

Arrays.sort(s2);

return s2;

}

}

42.median calculation

Sample Input 1:

7

1

2

1

4

7

1

2

Sample Output 1:

2

Sample Input 2:

6

52

51

81

84

60

88

Sample Output 2:

71

main class:

import java.util.Scanner;

public class playingwithstring {

public static void main(String[] args) {

Scanner s=new Scanner(System.in); int n=s.nextInt();

String s1[]=new String[n]; String s2[]=new String[n];

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

{

s1[i]=s.next();

}

s2=UserMainCode.sortArray(s1,n);

for (int i = 0; i < n; i++) { System.out.println(s2[i]);

}

s.close();

}}

user main code:

import java.util.Arrays;

public class UserMainCode{

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

String s2[]=new String[n];

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

{

s2[i]=s1[i].toLowerCase();

}

Arrays.sort(s2);

return s2;

}

}

43.sequence in array

Sample Input 1:

9

11

-2

5

1

2

3

4

5

6

Sample Output 1:

TRUE

Sample Input 2:

6

-2

5

1

3

2

6

Sample Output 2:

FALSE

main class:

import java.util.Scanner;

public class sequenceinarray {

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.searchsequence(a)); s.close();

}

}

user main class:

import java.util.Arrays;

public class UserMainCode{

public static boolean searchsequence(int[] a)

{

boolean b = false;

for(int i = 0 ; i< a.length-3; i++)

{

if(a[i]==1 && a[i+1]==2 && a[i+2]==3) b = true;

}

return b;

}

}

44.asterisk & characters

Sample Input 1:

Hello\*World

Sample Output 1:

FALSE

Sample Input 2:

Welcome\*elizabeth

Sample Output 2:

TRUE

main class:

import java.util.Scanner;

public class asteriskchar {

public static void main(String[] args)

{ Scanner s=new Scanner(System.in);

String input=s.next();

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

s.close();

}

}

user main code:

import java.util.Arrays;

import java.util.StringTokenizer;

public class UserMainCode{

public static boolean scanStarNeighbors (String input) {

boolean b=false;

StringTokenizer t=new StringTokenizer(input,"\*");

String s1=t.nextToken();

String s2=t.nextToken();

String s3=s1.substring(s1.length()-1);

String s4=s2.substring(0,1);

if(s3.equalsIgnoreCase(s4))

b=true;

return b;

}

}

45.occurance count

Sample Input 1:

Hello world Java is best programming language in the world world

Sample Output 1:

2

Sample Input 2:

hello world World

Sample Output 2:

0

main class:

import java.util.Scanner;

public class occurancecount {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.nextLine();

String s2=s.nextLine();

int v=UserMainCode.countWords(s1,s2);

System.out.println(v);

}

}

user main code:

import java.util.StringTokenizer;

public class UserMainCode{

public static int countWords(String s1,String s2){

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

int c=0;

while(t.hasMoreTokens())

{

String s3=t.nextToken();

if(s3.equals(s2)) c++;

}

return c;

}

}

46.regular expressions-3

Sample Input 1:

Catcowcat cat

Sample Output 1:

2

Sample Input 2:

Catcowcat catp

Sample Output 2:

0

main class:

import java.util.Scanner;

public class regularexpression3 {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

String s1=s.next();

String s2=s.next();

int v=UserMainCode.searchString(s1,s2); System.out.println(v);

s.close();}

}

user main code:

public class UserMainCode{

public static int searchString(String s1,String s2){

int c=0;

int t=s2.length();

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

if(s2.equalsIgnoreCase(s1.substring(i,t+i))){ c++;

}

}

return c;

}}

47. string processing

Sample Input 1:

Apple,Banana,Orange

2

Sample Output 1:

Banana

Sample Input 2:

Apple,Banana,Orange

4

Sample Output 2:

Orange

main class:

import java.util.Scanner;

public class stringprocessing {

public static void main(String args[])

{

String str=new String();

Scanner sc=new Scanner(System.in);

str=sc.nextLine();

int n=sc.nextInt();

String k=UserMainCode.findFruitName(str, n);

System.out.println(k);

sc.close();

}}

user main code:

import java.util.StringTokenizer;

public class UserMainCode{

public static String findFruitName(String m,int n)

{

int i=0; String h=null;

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

int max=st.countTokens();

String[] ss=new String[max];

while(st.hasMoreElements())

{

ss[i++]=st.nextToken();

}

if(n>max)

h=ss[i-1];

else h=ss[n-1];

return h;

}

}

48.proper case

Sample Input 1:

This is cognizant academy

Sample Output 1:

This Is Cognizant Academy

main class:

import java.util.Scanner;

public class propercase {

public static void main(String[] args)

{ Scanner s=new Scanner(System.in);

String s1=s.nextLine();

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

s.close();

}}

user main code:

import java.util.StringTokenizer;

public class UserMainCode{

public static String changeCase(String s1){

StringBuffer s5=new StringBuffer();

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

while(t.hasMoreTokens()){

String s2=t.nextToken();

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

String s4=s2.substring(1, s2.length());

s5.append(s3.toUpperCase()).append(s4).append(" ");

}

return s5.toString();

}}

49.length of same word

Sample Input 1:

This is Cognizant Academy

Sample Output 1:

11

Sample Input 2: Hello World Hello Sample Output 2:

5

main class:

import java.util.Scanner;

public class lengthsameword {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

String s1=sc.nextLine();

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

sc.close();

}

}

user main code:

import java.util.ArrayList;

import java.util.List;

import java.util.StringTokenizer;

public class UserMainCode{

public static int compareLastWords(String s1){

int n;

List<String> l=new ArrayList<String>();

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

while(t.hasMoreTokens())

{

String s2=t.nextToken(); l.add(s2);

}

String s3=l.get(0);

String s4=l.get(l.size()-1);

if(s3.equals(s4))

{

n=s3.length();

System.out.println(n);

}

else

{

int n1=s3.length();

int n2=s4.length();

n=n1+n2;

}

return n;

}

}

50.perfect number

Sample Input 1:

28

Sample Output 1:

TRUE

main class:

import java.util.Scanner;

public class perfectnumber {

public static void main(String[] args){

Scanner s=new Scanner(System.in);

int n=s.nextInt();

boolean j=(UserMainCode.getPerfection(n));

if(j==true)

System.out.println("TRUE");

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

}

}

user main code:

public class UserMainCode{

public static boolean getPerfection(int n){

boolean b=false;

int sum=0;

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

{

int r=n%i;

if(r==0)

sum=sum+i;

}

b=(sum==n); return b;

}

}

51.find digits

Sample Input 1:

843.21

Sample Output 1:

3:2

Sample Input 2:

20.130

Sample Output 2:

2:2

main class:

import java.util.Scanner;

public class finddigits {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

double d=s.nextDouble();

System.out.println(UserMainCode.findNoDigits(d));

}}

user main code:

import java.util.StringTokenizer;

public class UserMainCode{

public static String findNoDigits(double d) { int n1=0,n2=0;

String s=String.valueOf(d);

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

String s1=t.nextToken();

String s2=t.nextToken();

n1=s1.length();

n2=s2.length();

if(s1.charAt(0)=='0')

n1=s1.length()-1;

if(n2!=1)

if(s2.charAt(s2.length()-1)=='0')

n2=s2.length()-1;

String s3=String.valueOf(n1)+":"+String.valueOf(n2);

return s3;

}

}

52.employees & designations

Sample Input 1:

4

Manish

MGR

Babu

CLK

Rohit

MGR

Viru

PGR

MGR

Sample Output 1:

Manish

Rohit

main class:

import java.util.Iterator;

import java.util.LinkedHashMap;

import java.util.Scanner;

public class empdesg {

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int k1=Integer.parseInt(sc.nextLine());

LinkedHashMap<String,String> hm=new LinkedHashMap<String,String>();

for(int i=0;i<k1;i++)

{

String k=sc.nextLine();

String s=sc.nextLine();

hm.put(k,s);

}

String n=sc.nextLine();

LinkedHashMap<String,String> hm1=new LinkedHashMap<String,String>();

hm1=UserMainCode.obtainDesignation(hm,n);

Iterator<String> it=hm1.keySet().iterator();

while(it.hasNext())

{

String s2=it.next(); System.out.println(s2);

}

}

}

user main code:

import java.util.Iterator;

import java.util.LinkedHashMap;

public class UserMainCode{

public static LinkedHashMap<String,String> obtainDesignation(LinkedHashMap<String,String> h1,String n)

{

int k=0;

LinkedHashMap<String,String> hm1=new LinkedHashMap<String,String>();

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

while(it.hasNext())

{

String s2=it.next(); String s3=h1.get(s2); if(s3.equals(n))

hm1.put(s2,s3);

}

return hm1;

}}

54.dob validation

Sample Input 1:

12/23/1985

Sample Output 1:

TRUE

Sample Input 2:

31/12/1985

Sample Output 2:

FALSE

main class:

import java.util.Scanner;

public class dobvalidation {

public static void main(String[] args)

{

String str=new String();

Scanner sc=new Scanner(System.in);

str=sc.nextLine();

Boolean b=UserMainCode.ValidateDOB(str);

if(b==true)

System.out.println("TRUE");

if(b==false)

System.out.println("FALSE");

}

}

user main code:

import java.text.SimpleDateFormat;

import java.util.Date;

public class UserMainCode{

public static Boolean ValidateDOB(String str){

Boolean b=false;

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

sdf.setLenient(false);

try

{

Date d1=sdf.parse(str);

return b=true;

}

catch(Exception e)

{

return b=false;

}

}

55.experience validator

Sample Input:

2001

5

Sample Output:

TRUE

main class:

import java.util.Scanner;

public class experienceval {

public static void main(String args[]){

Scanner sc = new Scanner(System.in);

String s=sc.nextLine();

String s1=sc.nextLine();

System.out.println(UserMainCode.validateExp(s,s1));

}

}

user main code:

public static boolean validateExp(String s,String s1)

{

int y1=Integer.parseInt(s); Date d=new Date();

Calendar c=Calendar.getInstance();

int y2=c.get(Calendar.YEAR);

int y=Math.abs(y1-y2);

int e=Integer.parseInt(s1); if(y>=e)

return true;

else

return false;

}}

56.arraylist to string array

Sample Input 1:

4

a

d

c

b

Sample Output 1:

a

b

c

d

main classs:

import java.util.ArrayList;

import java.util.Scanner;

public class arraylisttostringarray {

public static void main(String[] args)

{

Scanner s=new Scanner(System.in);

ArrayList<String> l=new ArrayList<String>();

int n=s.nextInt();

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

{

l.add(s.next());

}

String a[]=new String[n]; a=UserMainCode.convertToStringArray(l); for(int j=0;j<n;j++)

{

System.out.println(a[j]);

}

}

}

user main code:

import java.util.ArrayList;

import java.util.Collections;

public class UserMainCode{

public static String[] convertToStringArray(ArrayList<String> l)

{

Collections.sort(l);

String [] a = l.toArray(new String[l.size()]);

return a;

}

}

58. arraylist to string array

Sample Input 1:

3

Apple

Cherry

Grapes

4

Orange

Mango

Melon

Apple

Sample Output 1:

Cherry

Grapes

Orange

main class:

import java.util.ArrayList;

import java.util.Scanner;

public class arraylist {

public static void main(String [] args)

{

Scanner s=new Scanner(System.in);

int m=s.nextInt();

ArrayList<String> aa1=new ArrayList<String>();

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

{

aa1.add(s.next());

}

int n=s.nextInt();

ArrayList<String> aa2=new ArrayList<String>();

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

{

aa2.add(s.next());

}

int k;

String st[]=UserMainCode.fruitSelector(aa1,aa2);

for( k=0;k<st.length;k++)

{

System.out.println(st[k]);

}

if(st.length==0)

System.out.println("No Fruit Found");

s.close();

}

}

user main class:

import java.util.ArrayList;

import java.util.Collections;

public class UserMainCode{

public static String[] fruitSelector(ArrayList<String> a1,ArrayList<String> a2)

{

ArrayList<String> a3=new ArrayList<String>();

for(int i=0;i<a1.size();i++)

{

String s1=a1.get(i);

if(s1.charAt(s1.length()-1)!='a'&&s1.charAt(s1.length()-1)!='e'&&s1.charAt(s1.length()- 1)!='A'&&s1.charAt(s1.length()-1)!='E')

{

a3.add(s1);

}

}

ArrayList<String> a4=new ArrayList<String>();

for(int j=0;j<a2.size();j++)

{

String s2=a2.get(j);

if(s2.charAt(0)!='m'&&s2.charAt(0)!='a'&&s2.charAt(0)!='M'&&s2.charAt(0)!='A')

{

a4.add(s2);

}

}

a3.addAll(a4);

Collections.sort(a3);

String st[]=new String[a3.size()];

for(int k=0;k<a3.size();k++)

{

st[k]=a3.get(k);

}

return st;

}

}

59.elements in arraylist

Sample Input 1:

4

1

8

3

5

2

3

5

Sample Output 1:

1

8

Sample Input 2:

4

9

1

3

5

4

1

3

5

6

Sample Output 2:

6

9

main class:

import java.util.ArrayList;

import java.util.Arrays;

import java.util.Scanner;

public class elemenstt {

public static void main(String[] args)

{

int n,m;

Scanner sin = new Scanner(System.in); n = sin.nextInt();

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

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

{

int k = sin.nextInt(); a1.add(k);

}

m = sin.nextInt();

ArrayList<Integer> a2 = new ArrayList<Integer>(m);

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

{

int k = sin.nextInt(); a2.add(k);

}

int[] result = UserMainCode.arrayListSubtractor(a1,a2);

Arrays.sort(result);

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

System.out.println(result[i]);

}}

user main code:

import java.util.ArrayList;

public class UserMainCode{

public static int[] arrayListSubtractor(ArrayList<Integer> arrlist1,ArrayList<Integer>

arrlist2)

{

int count=0,key;

int max = arrlist1.size(); if(arrlist1.size() < arrlist2.size()) max = arrlist2.size();

ArrayList<Integer> temp = new ArrayList<Integer>(max);

for(int i=0;i<arrlist1.size();i++)

{

key = (int)arrlist1.get(i);

if(arrlist2.indexOf(key) == -1)

{

++count; temp.add(key);

}

}

for(int i=0;i<arrlist2.size();i++)

{

key = (int)arrlist2.get(i);

if(arrlist1.indexOf(key) == -1)

{

if(!temp.contains(key))

{

++count; temp.add(key);

}

}

}

int[] result = new int[count];

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

result[i] = (int)temp.get(i);

return result;

}

}

60.price calculator

Sample Input 1:

3

Monitor

1200.36

Mouse

100.42

Speakers

500.25

2

Speakers

Mouse

Sample Output 1:

600.67

main class:

import java.util.HashMap;

import java.util.Scanner;

public class pricecal {

public static void main(String[] args) {

Scanner S=new Scanner(System.in); int n=S.nextInt();

HashMap<String, Float> m1=new HashMap<String, Float>();

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

{

String name=S.next(); float price=S.nextFloat(); m1.put(name,price);

}

int m=S.nextInt();

String s[]=new String[m];

for(int j=0;j<m;j++)

{

s[j]=S.next();

}

System.out.println(UserMainCode.getTheTotalCostOfPheripherals

(m1,s));

}}

user main code:

import java.util.HashMap;

import java.util.Iterator;

public class UserMainCode{

public static float getTheTotalCostOfPheripherals(HashMap<String,Float> m1, String[] s) {

Float f=(float) 0;

Iterator<String> i=m1.keySet().iterator();

while(i.hasNext()){ String s1=i.next(); Float f1=m1.get(s1);

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

if(s[j].equals(s1)) f+=f1; }

return f;

}}

61. string processing - zigzag

Sample Input 1:

12-06-2012

Sample Output 1:

30

Sample Input 2:

10-02-2012

Sample Output 2:

29

main class:

import java.io.IOException;

import java.text.ParseException;

import java.util.Scanner;

public class StringprocessingzigzAG {

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

Scanner S=new Scanner(System.in);

String s1=S.next();

UserMainCode.getLastDayOfMonth(s1);

}

}

user main code:

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Calendar;

import java.util.Date;

public class UserMainCode{

public static void getLastDayOfMonth(String s1) throws ParseException{

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

Calendar cal=Calendar.getInstance();

Date d1=sdf.parse(s1); cal.setTime(d1);

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

System.out.println(n);

}}

62.leap year

Sample Input 1:

23/02/2012

Sample Output 1:

TRUE

Sample Input 2:

12/12/2011

Sample Output 2:

FALSE

main class:

import java.io.IOException;

import java.text.ParseException;

import java.util.Scanner;

public class leapyear {

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

Scanner S=new Scanner(System.in);

String s1=S.next();

UserMainCode.isLeapyear(s1);

}}

user main code:

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Date;

import java.util.GregorianCalendar;

import java.util.StringTokenizer;

public class UserMainCode{

public static void isLeapyear(String s1) throws ParseException{

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

GregorianCalendar g=new GregorianCalendar();

StringTokenizer t=new StringTokenizer(s1,"/");

String s2=t.nextToken();

String s3=t.nextToken();

String s4=t.nextToken();

int n1=Integer.parseInt(s4);

Date d1=sdf.parse(s1);

boolean b=g.isLeapYear(n1);

System.out.println(b);

}

}

63.largest chunk

Sample Input 1:

This place is soooo good

Sample Output 1:

4

main class:

import java.util.Scanner;

public class largestchunk {

public static void main(String[] args) {

Scanner S=new Scanner(System.in);

String s1=S.nextLine();

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

}

}

user main code:

import java.util.StringTokenizer;

public class UserMainCode{

public static int getLargestSpan(String s1) {

int max=0;

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

while(t.hasMoreTokens()){

String s2=t.nextToken();

int n=0;

for(int i=0;i<s2.length()-1;i++)

if(s2.charAt(i)==s2.charAt(i+1))

n++;

if(n>max)

max=n;

}

return (max+1);

}}

65.even sum & duplicate elements

Sample Input 1:

7

2

3

54

1

6

7

7

Sample Output 1:

62

Sample Input 2:

6

3

7

9

13

17

21

Sample Output 2:

-1

main class:

import java.util.Scanner;

public class even {

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.sumElements(a));

}}

user main code:

import java.util.Iterator;

import java.util.LinkedHashSet;

public class UserMainCode{

public static int sumElements(int a[])

{

LinkedHashSet<Integer>h1=new LinkedHashSet<Integer>();

int s=0;

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

{

h1.add(a[i]);

}

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

while(it.hasNext())

{

int k=it.next();

if(k%2==0)

{

s=s+k;

}

}

if(s>0) return s; else return -1;

}

}

35.playing with string – i

Sample Input 1:

4

ABC

XYZ

EFG

MN

3

Sample Output 1:

CZG$

Main

package formstring;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int n=Integer.parseInt(s.nextLine());

String[] sc=new String[n];

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

{

sc[i]=s.nextLine();

}

int a=Integer.parseInt(s.nextLine());

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

s.close();

}

}

UserMainCode

package formstring;

public class UserMainCode {

public static String formString(int n, String[] sc, int a) {

StringBuffer sb=new StringBuffer();

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

{

if(sc[i].length()>=a)

{

String a1=sc[i];

sb.append(a1.charAt(a-1));

}

else

{

sb.append('$');

}

}

return sb.toString();

}

}

28.remove 3 multiples

Sample Input: 6 3 1 11

19 17 19 Sample Output 3 1 19 17

Main

package remove;

import java.util.ArrayList;

import java.util.Iterator;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

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

ArrayList<Integer> al1=new ArrayList<Integer>();

int n=Integer.parseInt(sc.nextLine());

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

al.add(sc.nextInt());

}

al1=UserMainCode.removeMultiplesOfThree(al);

Iterator it=al1.iterator();

while(it.hasNext())

{ System.out.println(it.next()); }

}

}

UserMainCode

package remove;

import java.util.ArrayList;

public class UserMainCode {

public static ArrayList<Integer> removeMultiplesOfThree(ArrayList<Integer> al) {

ArrayList<Integer> al2=new ArrayList<Integer>();

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

{ if((i+1)%3!=0)

al2.add(al.get(i));

} return al2;

}

}

24.add and reverse

Sample Input 6 10 15 20 25 30 100 15 Sample Output 571

Main

package addandreverse;

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();

} int b=sc.nextInt();

System.out.println(UserMainCode.addAndReverse(n,b,a))

; sc.close();

}

}

UserMainCode

package addandreverse;

public class UserMainCode {

public static int addAndReverse(int n, int b, int[] a) {

int i=0,sum=0,r=0;

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

{

if(a[i]>b)

{

sum=sum+a[i];

}

}

while(sum!=0)

{

r=((r\*10)+(sum%10));

sum=sum/10;

}

return r;

}

}

19.max admissions

Sample Input 1: 4 2010 200000 2011 300000 2012 45000 2013 25000

Sample Output 1: 2011

Main

package maxadmissin;

import java.util.ArrayList;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

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

int n=s.nextInt();

n=n\*2;

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

{

a1.add(s.nextInt());

}

System.out.println(UserMainCode.year(a1));

s.close();

}

}

UserMainCode

package maxadmissin;

import java.util.ArrayList;

public class UserMainCode {

public static Integer year(ArrayList<Integer> a1) {

int max=0,pos=0;

for(int i=1;i<a1.size();i+=2)

{

if(a1.get(i)>max)

{

max=a1.get(i);

pos=i;

}

}

return a1.get(pos-1);

}

}

16.simple string manipulation – ii

Sample Input 1: COGNIZANT TECHNOLOGY SOLUTIONS COGNIZANT

Sample Output 1: 9 Sample Input 2: HOW ARE YOU Sample Output 2

Main

package firstlast;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

String inpList=sc.nextLine();

System.out.println(UserMainCode.calculateWordSum(inpList));

}

}

UserMainCode

package firstlast;

public class UserMainCode {

public static int calculateWordSum(String inpList) {

int count=0;

String st[]=inpList.split(" ");

String s1=st[0];

String slst=st[st.length-1];

if(s1.equals(slst))

{

count=s1.length();

}

else

{

count=s1.length()+slst.length();

}

return count;

}

}

69. Age for Voting

Sample Input 1: 16/11/1991 Sample Output 1: eligible

Main

package maxscorer;

import java.lang.reflect.Array;

import java.util.ArrayList;

import java.util.List;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

String s =sc.nextLine();

System.out.println(UserMainCode.display(s));

}

}

UserMainCode

package maxscorer;

import java.text.SimpleDateFormat;

import java.util.Date;

import java.util.List;

import java.util.StringTokenizer;

public class UserMainCode {

public static String display(String s) {

int year=0;

String now="01/01/2015";

SimpleDateFormat sdf1=new SimpleDateFormat("dd/MM/yyyy");

try

{

Date d=sdf1.parse(s);

Date d1=sdf1.parse(now);

sdf1.setLenient(false);

int y=d.getYear();

int y1=d1.getYear();

int m=d.getMonth();

int m1=d1.getMonth();

int day=d.getDay();

int day1=d1.getDay();

year=y1-y;

if(m>m1)

year--;

else if(m==m1)

{if(day<day1)

year--;

}

}

catch(Exception e)

{

e.printStackTrace();

}

if(year>18)

return "eligible";

else

return "not-eligible";

}

}

68. String processing – Long + Short + Long

Sample Input 1: Hello Hi Sample Output 1: HelloHiHello

Main

package levl2;

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();

System.out.println(UserMainCode.getCombo(s1,s2)); s.close();

}

}

UserMainCode

package levl2;

public class UserMainCode {

public static String getCombo(String s1, String s2) {

StringBuffer sb=new StringBuffer();

int p=s1.length();

int q=s2.length();

if(p>q)

{

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

}

else

{

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

}

return sb.toString();

}

}

67. Integer Factorial

Sample Input1: 4 2 3 5 4

Sample Output1: 2:2 3:6 5:120 4:24

Main

package integerfactorial;

import java.util.Iterator;

import java.util.LinkedHashMap;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int a=Integer.parseInt(s.nextLine());

int[]k=new int[a];

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

{

k[i]=s.nextInt();

}

LinkedHashMap<Integer,Integer>hm=new LinkedHashMap<Integer,Integer>();

hm=UserMainCode.getFactorial(k);

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

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

{

int n=it.next();

int fac=hm.get(n);

System.out.println(n+":"+fac);

s.close();

}

}

}

UserMainCode

package integerfactorial;

import java.util.LinkedHashMap;

public class UserMainCode {

public static LinkedHashMap<Integer, Integer> getFactorial(int[] k) {

LinkedHashMap<Integer,Integer> hm1=new LinkedHashMap<Integer,Integer>();

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

{

int u=1;

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

{

u=u\*j;

}

hm1.put(k[i],u);

}

return hm1;

}

}

64.largest span

Sample Input 1:

6

4

2

1

4

5

7

Sample Output 1:

4

main class:

import java.util.Scanner;

public class largestspan {

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.print(UserMainCode.getLargestSpan(a,n));

}

}

user main code:

public class UserMainCode{

public static int getLargestSpan(int[] x,int n)

{

int gap=0,max=0;

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

{

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

{

if(x[i]==x[j])

{

gap=j;

}

}

if(gap-i>max)

max=gap-i;

}

return max+1;

}

}

66.regular expression-3

Sample Input 1:

Technology$1213

Sample Output 1:

valid

main class:

import java.util.Scanner;

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");

}

else{

System.out.println("Invalid");

}

s.close();

}

}

user main code:

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;

}

}

}

57.state id generator

Sample Input 1:

3

Kerala

Gujarat

Goa

Sample Output 1:

KER:Kerala

GUJ:Gujarat

GOA:Goa

main class:

import java.util.\*;

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();

}

LinkedHashMap<String, String> hm = new LinkedHashMap<String, String>();

hm = UserMainCode.putvalues(s1);

for(Map.Entry<String, String> ans: hm.entrySet())

{

System.out.println(ans.getKey()+":"+ans.getValue());

}

}}

user main code:

import java.util.HashMap;

import java.util.LinkedHashMap;

import java.util.Map;

public class UserMainCode{

public static LinkedHashMap<String, String> putvalues(String[] s1)

{

LinkedHashMap<String, String> hm = new LinkedHashMap<String, String>();

ArrayList<String> lst1 = new ArrayList<String>();

ArrayList<String> lst2 = new ArrayList<String>();

for(String s : s1) lst1.add(s.toUpperCase().substring(0,3)); for(String s : s1)

lst2.add(s);

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

{

hm.put(lst1.get(i),lst2.get(i));

}

return (LinkedHashMap<String, String>) hm;

}

}

53.grade calculator

Sample Input 1:

3

Avi

76.36

Sunil

68.42

Raja

36.25

Sample Output 1:

Avi

PASS

Sunil

PASS

Raja

FAIL

main class:

import java.io.IOException;

import java.util.Iterator;

import java.util.LinkedHashMap;

import java.util.Scanner;

public class ree333 {

public static void main(String[] args) throws IOException,Exception

{

Scanner sc=new Scanner(System.in);

int k1=Integer.parseInt(sc.nextLine());

LinkedHashMap<String, Float> hm=new LinkedHashMap<String,Float>();

for(int i=0;i<k1;i++)

{

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

}

LinkedHashMap<String,String> hm1=new LinkedHashMap<String,String>();

hm1=UserMainCode.obtainDesignation(hm);

Iterator<String> it=hm1.keySet().iterator();

for(int i=0;i<k1;i++) {

String n=it.next();

String fac=hm1.get(n);

System.out.println(n);

System.out.println(fac);

}

}

}

user main code:

import java.util.Iterator;

import java.util.LinkedHashMap;

import java.util.Map;

import java.util.Map.Entry;

public class UserMainCode{

public static LinkedHashMap<String, String> obtainDesignation(LinkedHashMap<String,Float> hm) {

LinkedHashMap<String,String> tm=new LinkedHashMap<String,String>();

Iterator<String>it=hm.keySet().iterator();

while(it.hasNext()) {

String id=it.next();

float mark=hm.get(id);

if(mark<60) {

tm.put(id,"FAIL");

}else {

tm.put(id,"PASS");

}

}

return tm;

}

}