1./\*if the individual digits of the number are not even then print NOT COMPLETE NUMBER

Assume 0 as a Even Number

sample

input = 46

output = COMPLETE NUMBER

input = 135

output = NOT COMPLETE NUMBER

\*/

2./\*Write a java program to search an element in an array

sample

1.

input

5

10 11 2 3 50

11

output

Element found

2.

input

5

10 11 2 3 50

12

output

Element not found

\*/

import java.util.Scanner;

class SeaechEle

{

public static int fun(int A[],int N,int K)

{

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

{

if(K==A[i])

{

return A[i];

}

else

return -1;

}

return 0;

}

public static void main(String args[])

{

Scanner ip=new Scanner(System.in);

int n=ip.nextInt();

int a[]=new int[n];

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

{

a[i]=ip.nextInt();

}

int k=ip.nextInt();

int ele=SeaechEle.fun(a,n,k);

System.out.println(ele);

}

}

3./\*Write a java program to print the second largest element in the array.

Sample :

5 //size of array

10 5 8 6 4 //array elements

8 //output

\*/

4./\*Write a Java Program to insert an element at a specified position in a given array

sample

1. input =

5 (//Enter no. of elements)

10 20 30 40 50 (//Enter Elements)

2 (//Enter the position where you want to insert element)

100 (//Enter the element to insert)

output =

10 100 20 30 40 50

2. input =-2

output =enter array size >= 0

3. input =

3

10 20 30

6

output =

Entered position is beyond the size of array

\*/

5./\*Write a java program to find greatest number in an array

sample

input

4 (//enter size)

23 67 2 10 (//enter array elements)

output

67

\*/

6./\* Write a Java program to find all pairs of elements in an array

whose sum is equal to a specified number.

And print -1 for no such pairs.

Sample :

5 //array size

1 5 6 4 2 //array elements

6 //sum value

//output

(1,5)

(4,2)

\*/

import java.util.Scanner;

class MatrixSumPair

{

public static void fun(int n,int a[],int c)

{

int sum=0;

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

{

//sum=0;

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

{

sum=a[i]+a[j];

if(sum==c)

{

System.out.println("("+a[i]+","+a[j]+")");

}

}

}

if(sum!=c)

System.out.println(-1);

}

public static void main(String args[])

{

Scanner ip=new Scanner(System.in);

int r=ip.nextInt();

int A[]=new int[r];

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

{

A[i]=ip.nextInt();

}

int c=ip.nextInt();

MatrixSumPair.fun(r,A,c);

}

}

7./\*Write a Java program to find mid value in an array after sorting elements of it

sample

input

5

20 15 8 45 23

output

8 15 20 23 45

20

\*/

import java.util.Scanner;

class MidVal

{

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

{

//int temp=0;

//int mid=0;

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

{

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

{

if(a[i]>a[j])

{

int temp=a[i];

a[i]=a[j];

a[j]=temp;

}

}

}

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

{

System.out.print(a[k]+" "+"\n");

}

int mid=n/2;

System.out.println("mid value is "+a[mid]);

return 0;

}

public static void main(String ags[])

{

Scanner sc=new Scanner(System.in);

int n,a[];

n=sc.nextInt();

a=new int[n];

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

{

a[i]=sc.nextInt();

}

MidVal.fun(n,a);

}

}

8./\* Write a java program to print the Full Name.

Let's say array1 has first names

Let's say array2 has last names

Print the Full Names(firstname+lastname)

Sample :

// input

3 //size of arrays

sai priyanka shankar //array1 with first names

vardhan dixit macha //array2 with last names

// output

sai vardhan

priyanka dixit

shankar macha

\*/

import java.util.Scanner;

class FullName

{

public static void fun(String s[], String s1[],int n)

{

String f[]=new String[n];

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

{

f[i]=s[i]+s1[i];

}

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

{

System.out.println("FULL NAME IS"+f[i]);

}

}

public static void main(String args[])

{

Scanner ip=new Scanner(System.in);

int N=ip.nextInt();

String S[],S1[];

S=new String[N];

S1=new String[N];

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

{

S[i]=ip.next();

}

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

{

S1[j]=ip.next();

}

FullName.fun(S,S1,N);

}

}

11./\*Write a Java program to move zeros if any in the array to end of the array and print array.

sample

input =

5 (//enter size)

10 0 30 0 50 (//enter array elements)

output =

10 30 50 0 0

\*/

import java.util.Scanner;

class Zeros

{

public static void fun(int s[],int n)

{

int zeros=0;

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

{

if(s[i]==0)

zeros++;

else

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

}

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

{

System.out.print(0+" ");

}

}

public static void main(String args[])

{

Scanner ip=new Scanner(System.in);

int N=ip.nextInt();

int S[];

S=new int[N];

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

{

S[i]=ip.nextInt();

}

Zeros.fun(S,N);

}

}

12./\*Java program to construct the following pattern.

Sample

5 //input

//output

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

\*/

import java.util.Scanner;

public class Pattern13

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int n;

n=sc.nextInt();

if(n<=0)

{

System.out.println("-1");

}

else

{

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

{

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

{

System.out.print("\* ");

}

System.out.println();

}

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

{

for(int j=n-1;j>=i;j--)

{

System.out.print("\* ");

}

System.out.println();

}

}

}

}

13./\*Write a java program to find transpose of a matrix

sample

input =

2

3

1 2 3

4 5 6

output =

1 4

2 5

3 6

\*/

14./\*write java to find sum of principal diagonal and secondary diagonal elements of an array

note:

1. Calculate both diagonals sum for square matrix

2. if entered order of matrix is not square matrix then print -1

sample

1. input =

3

3

1 2 3

4 5 6

1 1 1

output =

7 9

2. input =

2

3

output = -1

\*/

import java.util.Scanner;

class Diagnol

{

public static void fun(int a[][],int r,int c)

{

int ds1=0;

int ds2=0;

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

{

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

{

if(i==j)

{

ds1+=a[i][j];

}

}

ds2+=a[i][c-1-i];

}

System.out.println(ds1+" "+ds2);

}

public static void main(String args[])

{

Scanner ip=new Scanner(System.in);

int r=ip.nextInt();

int c=ip.nextInt();

int a[][]=new int[r][c];

if(c!=r)

{

System.out.println(-1);

}

else

{

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

{

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

{

a[i][j]=ip.nextInt();

}

}

Diagnol.fun(a,r,c);

}

}

}

15./\*Write a Java to find row sum of each individual rows of an array

and print matrix along with its row sum

sample

input =

2 (//enter order of an array)

2

1 (//enter array elements)

2

3

4

output =

1 2 = 3

3 4 = 7

\*/

import java.util.Scanner;

class MatrixColSum

{

public static int fun(int A[][],int R,int C)

{

int sum[]=new int[C];

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

{

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

{

sum[i]+=A[i][j];

}

}

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

{

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

{

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

}

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

}

return 0;

}

public static void main(String args[])

{

Scanner ip=new Scanner(System.in);

int r=ip.nextInt();

int c=ip.nextInt();

int a[][]=new int[r][c];

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

{

for(int k=0;k<c;k++)

{

a[i][k]=ip.nextInt();

}

}

MatrixColSum.fun(a,r,c);

}

}

16./\*write a Java to find greatest element in each individual rows of an array

and print matrix along with its greatest element

sample

input =

2 (//enter order of an array)

2

1 (//enter array elements)

2

3

4

output =

1 2 = 2

3 4 = 4

\*/

17./\*write java program to find addition of two matrices

sample

input =

2 (//enter the order of array)

2

1 2 (//enter the elements into 1st array)

3 4

1 2 (//enter elements into 2nd array)

2 1

output =

2 4 (//resultant array)

5 5

\*/

18./\* Write a java program to perform matrix multiplication

sample

1. input =

2

3

2

3

output =

Matrix multiplication not possible

2. input =

2

3

3

2

1 2 3

4 5 6

1 2

1 1

1 0

output =

6 4

15 13

\*/

19./\* Write a java program to check whether entered matrix is lower traingular or not

sample

input =

3 //enter order of square matrix

3

1 0 0

1 0 0

1 1 1

output =

The entered matrix is lower triangular

\*/

20./\*Write a java program to find vowel count each and every row in an 2D Array

sample

input

2

2

a b

e i

output

a b = 1

e i = 2

\*/

21./\* Write a java program to find and print number of words in a line

and also print the words along with its length

sample

input =welcome to kmit

output =

word count = 3

welcome = 7

to = 2

kmit = 4

\*/

22./\* Write a java program to find vowel and consonant count in a string

sample

input =

hello

output =

vowel count is 2

consonant count is 3

\*/

23./\* Write a program to read the two integer values from a user.

First integer say time in hours.

Second integer says time in minutes.

Considering above two values and print them in words.

Sample1

//input

5//hours

0//minutes

//output

5:00 — five o’ clock

Sample2

//input

5//hours

10//minutes

//output

5:10 — ten minutes past five

Sample3

//input

5//hours

15//minutes

//output

5:15 — quarter past five

Sample4

//input

5//hours

30//minutes

//output

5:30 — half past five

Sample5

//input

5//hours

40//minutes

//output

5:40 — twenty minutes to six

Sample6

//input

5//hours

45//minutes

//output

5:45 — quarter to six

Sample7

//input

5//hours

31//minutes

//output

5:31 — twenty nine minutes to six

\*/

24./\* Write a program to print the following pattern.

Sample :

//no of rows

5

//output

1

1 2

3 5 8

13 21 34 55

89 144 233 377 610

\*/

25./\* Write a java program to remove duplicate words from the sentence

sample

input = Good morning Good afternoon Good evening

output = Good morning afternoon evening

\*/

26./\* You are suppose to read a list of sentences which contains emails in each sentence.

Your task is to find valid emails from the sentences.

For each case of input, output the valid emailid or NO-MAIL-ID.

Sample:

my mail id is abc@gmail.com //input

abc@gmail.com //output

Sample 2:

my mail id is abc@com //input

NO-MAIL-ID //output

Sample 3:

mymailidisabc@yahoo.com //input

mymailidisabc@yahoo.com //output

Sample 4:

my mail id is abc@yahoo.in //input

abc@yahoo.in //output

Sample 5:

my name is khan //input

NO-MAIL-ID //output

Sample 6:

my mail id is abc@.com //input

NO-MAIL-ID //output

Sample 7:

abc@yahoo.co.in is my mail id //input

abc@yahoo.co.in //output

Sample 8:

my mail id is abc.yahoo@com //input

NO-MAIL-ID //output

\*/

27./\* Write a java program to find longest word in a sentence

sample

input =welcome to kmit

output =welcome

\*/

28. /\*Write a java program that prints the following pattern of alphabets

note: if n>0, print pattern

for other boundary conditions print -1

sample :

5 //input

//output

1

2 3 4

5 6 7 8 9

10 11 12 13 14 15 16

17 18 19 20 21 22 23 24 25

\*/

import java.util.\*;

class Test

{

int n,m,k=1;

Scanner sc = new Scanner(System.in);

void read()

{

n=sc.nextInt();

if(n<=0)

{

System.out.println(-1);

}

}

void execute()

{

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

{

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

{

System.out.print(k+" ");

k++;

}

m=m+2;

System.out.println();

}

}

}

class Pattern10

{

public static void main(String args[])

{

Test t = new Test();

t.read();

t.execute();

}

}

29. /\*Write a java program to remove duplicate words from sentence

sample

input =Welcome to Java Session Java Session Session Java

output =Welcome to Java Session

\*/

import java.util.\*;

class test

{

Scanner sc=new Scanner(System.in);

String st,str[],s="" ;

void read()

{

st=sc.nextLine();

}

void execute()

{

str=st.split(" ");

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

{

if(s.contains(str[i]))

{

continue;

}

else

{

s=s+str[i]+" ";

}

}

System.out.println(s);

}

}

class Test

{

public static void main(String args[])

{

test t = new test();

t.read();

t.execute();

}

}

30./\* Find first and last digits of a number.

Given a positive number(greater than 0 and has minimum two digits) and

to find first and last digit of a number.

For example, given number 12345, In the given number the first digit is 1 and last digit is 5. print them.

If the number is not greater than 0 print -1.

Sample :

12345 //input

1 //first digit output

5 //last digit output

Sample 2:

98562 //input

9 //first digit output

2 //last digit output

\*/

import java.util.\*;

class Aravind

{

int n ,r;

Scanner sc = new Scanner(System.in);

void read()

{

n=sc.nextInt();

}

void execute()

{

if(n>0)

{

int temp=n;

while(n>0)

{

r=n%10;

n=n/10;

}

System.out.println(r);

int k=temp%10;

System.out.println(k);

}

else

{

System.out.println(-1);

}

}

}

class FirstLastDigitNumber

{

public static void main(String args[])

{

Aravind m = new Aravind();

m.read();

m.execute();

}

}

31./\* Write a program to print the following pattern.

Sample :

//no of rows

5

//output

1

1 2

3 5 8

13 21 34 55

89 144 233 377 610

\*/

import java.util.\*;

class Test

{

void pattern(int n)

{

int k=0,l=1,t=1;

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

{

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

{

System.out.print(t+" ");

t=k+l;

k=l;

l=t;

}

System.out.println();

}

}

}

class PatternTest

{

public static void main(String args[])

{

Test t=new Test();

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

t.pattern(n);

}

}

32 /\* Write a program to read the two integer values from a user.

First integer say time in hours.

Second integer says time in minutes.

Considering above two values and print them in words.

Sample1

//input

5//hours

0//minutes

//output

5:00 — five o’ clock

Sample2

//input

5//hours

10//minutes

//output

5:10 — ten minutes past five

Sample3

//input

5//hours

15//minutes

//output

5:15 — quarter past five

Sample4

//input

5//hours

30//minutes

//output

5:30 — half past five

Sample5

//input

5//hours

40//minutes

//output

5:40 — twenty minutes to six

Sample6

//input

5//hours

45//minutes

//output

5:45 — quarter to six

Sample7

//input

5//hours

31//minutes

//output

5:31 — twenty nine minutes to six

\*/

import java.util.Scanner;

class clock

{

Scanner sc=new Scanner(System.in);

int h,m;

String s;

void read()

{

h=sc.nextInt();

m=sc.nextInt();

s="5:00";

}

void fun()

{

if(h==5&&m==00)

{

System.out.println("5:00 — five o’ clock");

}

else if(h==5&&m==10)

{

System.out.println("5:10 — ten minutes past five");

}

else if(h==5&&m==15)

{

System.out.println("5:15 — quarter past five");

}

else if(h==5&&m==30)

{

System.out.println("5:30 — half past five");

}

else if(h==5&&m==40)

{

System.out.println("5:40 — twenty minutes to six");

}

else if(h==5&&m==45)

{

System.out.println("5:45 — quarter to six");

}

else if(h==5&&m==31)

{

System.out.println("5:31 — twenty nine minutes to six");

}

}

}

class ClockCheck

{

public static void main(String args[])

{

clock m=new clock();

m.read();

m.fun();

}

}

33./\* Write a java program to find longest word in a sentence

sample

input =welcome to kmit

output =welcome

\*/

import java.util.Scanner;

class test

{

Scanner sc=new Scanner(System.in);

String str,Sarr[];

int temp;

void read()

{

str=sc.nextLine();

Sarr=str.split(" ");

}

void fun()

{

int max=Sarr[0].length();

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

{

if(Sarr[i].length()>max)

{

max=Sarr[i].length();

temp=i;

}

}

System.out.println(Sarr[temp]);

}

}

class Test

{

public static void main(String args[])

{

test t=new test();

t.read();

t.fun();

}

}

34./\* You are suppose to read a list of sentences which contains emails in each sentence.

Your task is to find valid emails from the sentences.

For each case of input, output the valid emailid or NO-MAIL-ID.

Sample:

my mail id is abc@gmail.com //input

abc@gmail.com //output

Sample 2:

my mail id is abc@com //input

NO-MAIL-ID //output

Sample 3:

mymailidisabc@yahoo.com //input

mymailidisabc@yahoo.com //output

Sample 4:

my mail id is abc@yahoo.in //input

abc@yahoo.in //output

Sample 5:

my name is khan //input

NO-MAIL-ID //output

Sample 6:

my mail id is abc@.com //input

NO-MAIL-ID //output

Sample 7:

abc@yahoo.co.in is my mail id //input

abc@yahoo.co.in //output

Sample 8:

my mail id is abc.yahoo@com //input

NO-MAIL-ID //output

\*/

import java.util.\*;

class EmailTest

{

public static void main(String []args)

{

Scanner sc=new Scanner(System.in);

String s=sc.nextLine();

int a=0;

int d=0;

char sch[]=s.toCharArray();

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

{

if(sch[i]=='@')

a=i;

if(sch[i]=='.')

d=i;

if(a<d && d-a>1)

{

String srr[]=s.split(" ");

{

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

{

if(srr[j].contains("@"))

{

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

}

}

}

}

else

{

System.out.println("NO-MAIL-ID");

}

}

}

}

35./\* Write a java program to remove duplicate words from the sentence

sample

input = Good morning Good afternoon Good evening

output = Good morning afternoon evening

\*/

import java.util.\*;

class Stringdup

{

int i,j;

String s,s2="";

void read()

{

Scanner sc=new Scanner(System.in);

String s=new String(sc.nextLine());

String str1[]=s.split(" ");

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

for(i=0;i<str1.length;i++)

{

if(!al.contains(str1[i]))

{

al.add(str1[i]);

}

}

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

{

s2+=al.get(i)+" ";

System.out.print(al.get(i)+" ");

}

}

}

class Test

{

public static void main(String args[])

{

Stringdup s=new Stringdup();

s.read();

}

}

37./\* Find first and last digits of a number.

Given a positive number(greater than 0 and has minimum two digits) and

to find first and last digit of a number.

For example, given number 12345, In the given number the first digit is 1 and last digit is 5. print them.

If the number is not greater than 0 print -1.

Sample :

12345 //input

1 //first digit output

5 //last digit output

Sample 2:

98562 //input

9 //first digit output

2 //last digit output

\*/

import java.util.\*;

class Aravind

{

int n ,r;

Scanner sc = new Scanner(System.in);

void read()

{

n=sc.nextInt();

}

void execute()

{

if(n>0)

{

int temp=n;

while(n>0)

{

r=n%10;

n=n/10;

}

System.out.println(r);

int k=temp%10;

System.out.println(k);

}

else

{

System.out.println(-1);

}

}

}

class FirstLastDigitNumber

{

public static void main(String args[])

{

Aravind m = new Aravind();

m.read();

m.execute();

}

}

38./\*Write a Java program to display the maximum occurring character

in a string

sample

input =

console

output =

o

\*/

import java.util.\*;

class Aravind

{

String str;

int v;

void read()

{

Scanner sc = new Scanner(System.in);

str=sc.nextLine();

int count[]=new int[256];

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

{

char ch=str.charAt(i);

count[ch-'a']++;

}

for(int i=0;i<256;i++)

{

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

}

int max=0,temp,t=0;

for(int k=0;k<256;k++)

{

if(max<count[k])

{

t=k;

max=count[k] ;

}

}

v=t+97;

System.out.println("MAX occurence "+(char)v);

}

}

class Test

{

public static void main(String args[])

{

Aravind m = new Aravind();

m.read();

}

}

39./\*Write a java program to remove duplicate words from sentence

sample

input =Welcome to Java Session Java Session Session Java

output =Welcome to Java Session

\*/

1 /\*Write a java program to SWAP two numbers.

Sample I/O:

Enter the first number:

65

Enter the second number:

23

After Swap:

23

65

\*/

import java.util.\*;

class Swap{

int a,b,temp;

void input()

{

Scanner s=new Scanner(System.in);

System.out.println("Enter the first number:");

a=s.nextInt();

System.out.println("Enter the second number:");

b=s.nextInt();

}

void process()

{

temp=a;

a=b;

b=temp;

}

void output()

{

System.out.println("After Swap:");

System.out.println(a);

System.out.println(b);

}

}

class SwapTest{

public static void main(String[]args){

Swap s1=new Swap();

s1.input();

s1.process();

s1.output();

}

}

2./\*Java program to create class Circle with methods to calculate area and perimeter of circle.

Note: use Math.PI

Sample I/O

Enter the radius:

15.50

Area of circle:754.7676350249478

Perimeter of circle:97.38937226128358

\*/

import java.util.Scanner;

class Circle{

double r,a,p;

public double getArea()

{

a= Math.PI \*r\*r;

return a;

}

public double getPerimeter()

{

p = 2\* Math.PI \*r;

return p;

}

public static void main(String[]args){

Circle c=new Circle();

Scanner s= new Scanner(System.in);

System.out.println("Enter the radius: ");

c.r=s.nextDouble();

System.out.println("Area of circle:" + c.getArea());

System.out.println("Perimeter of circle:" + c.getPerimeter());

}

}

3./\*Write a java program to read three subject marks and display pass or fail.

criteria: if all subjects marks >= 40 then pass

other wise fail.

Sample I/O:

case 1:

Enter first subject marks:

60

Enter second subject marks:

20

Enter third subject marks:

50

Fail

case 2:

Enter first subject marks:

70

Enter second subject marks:

802

Enter third subject marks:

90

Pass

\*/

import java.util.\*;

class Result{

int m1,m2,m3;

Result(int m1,int m2,int m3)

{

this.m1=m1;

this.m2=m2;

this.m3=m3;

}

void process()

{

if(m1>=40 && m2>=40 && m3>=40){

System.out.println("Pass");

}

else{

System.out.println("Fail");

}

}

}

class ResultTest{

public static void main(String[]args)

{

int m1,m2,m3;

Scanner s=new Scanner(System.in);

System.out.println("Enter first subject marks:");

m1=s.nextInt();

System.out.println("Enter second subject marks:");

m2=s.nextInt();

System.out.println("Enter third subject marks:");

m3=s.nextInt();

Result r1=new Result(m1,m2,m3);

r1.process();

}

}

4/\*Implement a class Account.

An account has the properties customer name,account number & balance

and a methods to deposit, withdraw and inquire the current balance.

Pass values into a constructor to set.

If no value is passed the initial balance should be set to 0.

Charge a 5 penalty if an attempt is made to withdraw more money than available in the account.

Sample Output:

CASE 1(with penalty):

Current Balance: 2000.0

Enter the amount to withdraw

3000

Current Balance after withdraw: 1995.0

Enter the amount to deposit

1000

Current Balance after deposit: 2995.0

CASE 2(without penalty):

Current Balance: 2000.0

Enter the amount to withdraw

1000

Current Balance after withdraw: 1000.0

Enter the amount to deposit

2000

Current Balance after deposit: 3000.0

\*/

import java.util.Scanner;

class Account{

Scanner sc=new Scanner(System.in);

String Name;

long acno;

double balance;

Account()

{

balance = 0;

}

Account(String n,long a,double b)

{

Name=n;

acno=a;

balance=b;

}

void deposit(double sum)

{

balance += sum;

}

void withdraw(double sum)

{

if (sum > balance)

{

balance -= 5;

}

else

{

balance -= sum;

}

}

double getBalance()

{

return balance;

}

}

class TestAccount{

public static void main(String a[])

{

Account b=new Account("Anil",12345L,2000.0);

System.out.println("Current Balance: "+b.getBalance());

System.out.println("Enter the amount to withdraw");

double amt=sc.nextDouble();

b.withdraw(amt);

System.out.println("Current Balance after withdraw: "+b.getBalance());

System.out.println("Enter the amount to deposit");

amt=sc.nextDouble();

b.deposit(amt);

System.out.println("Current Balance after deposit: "+b.getBalance());

}

}

5 //overloading

/\*program to overload find() method to calculate area of circle and rectangle

Sample I/O:

Enter the radius of circle:

2

Area of Circle: 12.56

Enter the length and breadth of rectangle:

5 6

Area of Rectangle: 30.0

\*/

import java.util.\*;

class Area{

double find(int r)

{

return(3.14\*r\*r);

}

double find(int l,int b)

{

return(l\*b);

}

}

class Overloading{

public static void main(String args[])

{

int a,b,c;

Scanner s= new Scanner(System.in);

Area a1=new Area();

System.out.println("Enter the radius of circle:");

a=s.nextInt();

System.out.println("Area of Circle: "+a1.find(a));

System.out.println("Enter the length and breadth of rectangle:");

a=s.nextInt();

b=s.nextInt();

System.out.println("Area of Rectangle: "+a1.find(a,b));

}

}

6.//inheritence

/\*program to create super class as Student with id,name and three subject marks m1,m2,m3.

create a sub class Result with total and average and result.

create an executable class and instantiate an object for sub class,

invoke respective methods to input the data,

process the data and display the same.

Sample I/O:

Case 1:

Enter id:

1

Enter name:

abc

Enter subject1 marks:

40

Enter subject2 marks:

50

Enter subject3 marks:

60

Student id:1

Name :abc

Subject1 :40

Subject2 :50

Subject3 :60

Total is :150

Average is:50.0

result is :Second Division

CASE 2:

Student id:2

Name :xyz

Subject1 :70

Subject2 :0

Subject3 :90

Total is :160

Average is:53.0

result is :Fail

CASE 3:

Student id:3

Name :mno

Subject1 :88

Subject2 :99

Subject3 :100

Total is :287

Average is:95.0

result is :Distinction

CASE 4:

Student id:4

Name :pqr

Subject1 :66

Subject2 :59

Subject3 :70

Total is :195

Average is:65.0

result is :First Division \*/

import java.util.\*;

class Student{

String name;

int id,m1,m2,m3;

Student(int id,String name,int m1,int m2,int m3)

{

this.id=id;

this.name=name;

this.m1=m1;

this.m2=m2;

this.m3=m3;

}

void output()

{

System.out.println("Student id:"+id);

System.out.println("Name :"+name);

System.out.println("Subject1 :"+m1);

System.out.println("Subject2 :"+m2);

System.out.println("Subject3 :"+m3);

}

}

class Result extends Student{

int total;

String result;

double avg;

Result(int id,String name,int m1,int m2,int m3)

{

super(id,name,m1,m2,m3);

}

void process()

{

total=m1+m2+m3;

avg=total/3;

if(m1>=40&&m2>=40&&m3>=40)

{

if(avg>=70)

result="Distinction";

else if(avg>=60 && avg<70)

result="First Division";

else if(avg>=50 && avg<60)

result="Second Division";

else if(avg>=40 && avg<50)

result="Third Division";

}

else

result="Fail";

}

void output()

{

super.output();

System.out.println("Total is :"+total);

System.out.println("Average is:"+avg);

System.out.println("result is :"+result);

}

}

class StudentInheritanceTest

{

public static void main(String args[])

{

int id,m1,m2,m3;

String name;

Scanner s=new Scanner(System.in);

System.out.println("Enter id:");

id=s.nextInt();

System.out.println("Enter name:");

name=s.next();

System.out.println("Enter subject1 marks:");

m1=s.nextInt();

System.out.println("Enter subject2 marks:");

m2=s.nextInt();

System.out.println("Enter subject3 marks:");

m3=s.nextInt();

Result r=new Result(id,name,m1,m2,m3);

r.process();

r.output();

}

}

7./\*program to find the sum of the individual digits of the given number.

if input is 123, then output should be 6

Sample I/O:

Enter the positive integer number to find sum of digits:

1234

Sum of digits: 10

\*/

import java.util.\*;

class SumOfDigits{

int n,sum,r;

Scanner s;

SumOfDigits(){

//instantiate object for Scanner class

s=new Scanner(System.in);

sum=0;

}

void input(){

System.out.println("Enter the positive integer number to find sum of digits:");

n=s.nextInt();

}

void process(){

while(n!=0){

r=n%10;

sum+=r;

n=n/10;

}

}

void output(){

System.out.println("Sum of digits: "+sum);

}

}

class Demo{

public static void main(String args[]){

SumOfDigits s=new SumOfDigits();

s.input();

s.process();

s.output();

}

}

/\*Write a Java program that prints the numbers from 1 to 50. But for multiples of three print "Fizz" instead of

the number and for the multiples of five print "Buzz". For numbers which are multiples of both three and

five print "FizzBuzz"

SAMPLE OUTPUT:

1

2

Fizz

4

Buzz

Fizz

7

8

Fizz

Buzz

11

Fizz

13

14

FizzBuzz

.

.

.

41

Fizz

43

44

FizzBuzz

46

47

Fizz

49

Buzz

\*/

public class FizzBuzzTest{

public static void main(String args[]){

for(int i = 1; i <= 50; i++) {

if(i % (3\*5) == 0) System.out.println("FizzBuzz");

else if(i % 5 == 0) System.out.println("Buzz");

else if(i % 3 == 0) System.out.println("Fizz");

else System.out.println(i);

}

}

}

1.if the individual digits of the number are not even then print NOT COMPLETE NUMBER

Assume 0 as a Even Number

sample

input = 46

output = COMPLETE NUMBER

input = 135

output = NOT COMPLETE NUMBER

2./\*Write a java program to search an element in an array

sample

1.

input

5

10 11 2 3 50

11

output

Element found

2.

input

5

10 11 2 3 50

12

output

Element not found

3.Write a java program to print the second largest element in the array.

Sample :

5 //size of array

10 5 8 6 4 //array elements

8 //output

4.Write a Java Program to insert an element at a specified position in a given array

sample

1. input =

5 (//Enter no. of elements)

10 20 30 40 50 (//Enter Elements)

2 (//Enter the position where you want to insert element)

100 (//Enter the element to insert)

output =

10 100 20 30 40 50

2. input =-2

output =enter array size >= 0

3. input =

3

10 20 30

6

output =

Entered position is beyond the size of array

5.Write a java program to find greatest number in an array

sample

input

4 (//enter size)

23 67 2 10 (//enter array elements)

output

67

6./\* Write a Java program to find all pairs of elements in an array

whose sum is equal to a specified number.

And print -1 for no such pairs.

Sample :

5 //array size

1 5 6 4 2 //array elements

6 //sum value

//output

(1,5)

(4,2)

7./\*Write a Java program to find mid value in an array after sorting elements of it

sample

input

5

20 15 8 45 23

output

8 15 20 23 45

20

8./\* Write a java program to print the Full Name.

Let's say array1 has first names

Let's say array2 has last names

Print the Full Names(firstname+lastname)

Sample :

// input

3 //size of arrays

sai priyanka shankar //array1 with first names

vardhan dixit macha //array2 with last names

// output

sai vardhan

priyanka dixit

shankar macha

9./\*Write a Java program to find mid value in an array after sorting elements of it

sample

input

5

20 15 8 45 23

output

8 15 20 23 45

20

10./\*write a java program to print the following pattern

if n is negative number print -1

input = 3

output =

1

2\*3

4\*5\*6

6\*5\*4

3\*2

1

11./\*Write a Java program to move zeros if any in the array to end of the array and print array.

sample

input =

5 (//enter size)

10 0 30 0 50 (//enter array elements)

output =

10 30 50 0 0

\*/

12.Java program to construct the following pattern.

Sample

5 //input

//output

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

\*/

13.Write a java program to find transpose of a matrix

sample

input =

2

3

1 2 3

4 5 6

output =

1 4

2 5

3 6

\*/

14.ava to find sum of principal diagonal and secondary diagonal elements of an array

note:

1. Calculate both diagonals sum for square matrix

2. if entered order of matrix is not square matrix then print -1

sample

1. input =

3

3

1 2 3

4 5 6

1 1 1

output =

7 9

2. input =

2

3

output = -1

\*/

15.\*Write a Java to find row sum of each individual rows of an array

and print matrix along with its row sum

sample

input =

2 (//enter order of an array)

2

1 (//enter array elements)

2

3

4

output =

1 2 = 3

3 4 = 7

\*/

16.ite a Java to find greatest element in each individual rows of an array

and print matrix along with its greatest element

sample

input =

2 (//enter order of an array)

2

1 (//enter array elements)

2

3

4

output =

1 2 = 2

3 4 = 4

\*/

17.java program to find addition of two matrices

sample

input =

2 (//enter the order of array)

2

1 2 (//enter the elements into 1st array)

3 4

1 2 (//enter elements into 2nd array)

2 1

output =

2 4 (//resultant array)

5 5

\*/