/\*

1 instance variables can assign values to objects idividully by using dot operator access instance var. ==>we have to initialize all objects

2. with the help of methods we have to initilize each obj individully by using dot operator. ==>when new objects were created we have to initilize each obj individully.

CONSTRUCTOR:

help of consrtucter methods jvm initilize an object when it first created automatically.

by using special method constructor that enables an object to initilize itslef when it is created.

\*/

class Rectangle

{

int length;

int width;

Rectangle (int x,int y) // constructor method is created

{

length=x;

width=y;

}

int getArea()

{

int area=length\*width;

return area;

}

}

class ConstructorDemo

{

public static void main(String args[])

{

Rectangle var1=new Rectangle(2,2);

Rectangle var2=new Rectangle(5,5);

Rectangle var3=new Rectangle(7,7); //automaticlly initilizing methosds to objects of a classs

int area1,area2,area3;

var1.getArea(); // initilizing methods to each individul obj

var2.getArea();

var3.getArea();

area1=var1.getArea();

area2=var2.getArea();

area3=var3.getArea(); //initailizing values to variables

System.out.println("Area 1 is:"+area1);

System.out.println("Area 2 is:"+area2);

System.out.println("Area 3 is:"+area3);

}

}

/\*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

\*/

import java.util.Scanner;

class Aravind

{

Scanner sc=new Scanner(System.in);

char a[][];

r,c;

void read()

{

r=sc.nextInt();

c=sc.nextInt();

a=new char[r][c];

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

{

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

{

a[i][j]=sc.next().charAt(0);

}

}

}

void fun()

{

int count=0;

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

{

count=0;

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

{

}

}

}

}/\*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

\*/

import java.util.Scanner;

class Aravind

{

Scanner sc=new Scanner(System.in);

char a[][];

int r,c;

void read()

{

r=sc.nextInt();

c=sc.nextInt();

a=new char[r][c];

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

{

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

{

a[i][j]=sc.next().charAt(0);

}

}

}

void fun()

{

int count;

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

{

count=0;

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

{

if(a[i][j]=='a'||a[i][j]=='e'||a[i][j]=='o'||a[i][j]=='i'||a[i][j]=='u')

{

count++;

}

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

}

System.out.println("="+count);

}

}

}

class Test

{

public static void main(String args[])

{

Aravind m=new Aravind();

m.read();

m.fun();

}

}/\*Write a java program to sort the strings in lexographical order

sample

//input

4

word hard dream big

//output

big dream hard work

\*/

import java.util.Scanner;

class LOrder

{

Scanner sc= new Scanner(System.in);

int n;

String temp,Sarr[];

void read()

{

n=sc.nextInt();

Sarr=new String[n];

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

{

Sarr[i]=sc.next();

}

}

void fun()

{

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

{

for(int j=i+1;j<Sarr.length;j++)

{

if(Sarr[i].compareTo(Sarr[j])>0)

{

temp=Sarr[i];

Sarr[i]=Sarr[j];

Sarr[j]= temp;

}

}

}

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

{

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

}

}

}

class Test

{

public static void main(String args[])

{

LOrder l=new LOrder();

l.read();

l.fun();

}

}//read a secntence and try to print words stating with vowel along with its length

import java.util.\*;

class test

{

Scanner sc = new Scanner(System.in);

String str;

void read()

{

str=sc.nextLine();

int count=0;

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

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

{

char ch=s[i].charAt(0);

if(ch=='a'||ch=='e'||ch=='i'||ch=='o'||ch=='u'||ch=='A'||ch=='E'||ch=='I'||ch=='O'||ch=='U')

{

System.out.println(s[i]+"-"+s[i].length());

count++;

}

}

System.out.println("no of words ="+count);

}

}

class Test

{

public static void main(String args[])

{

test t = new test();

t.read();

}

}

/\* Write a java program to remove all the digits and special characters from the

input string and display the output in the specified format

sample

input = &\*re(9m)o^v6e

output = remove

total number of digits removed = 2

total number of special characters removed = 5

\*/

import java.util.\*;

class Aravind

{

Scanner sc = new Scanner(System.in);

String str,s;

void read()

{

str=sc.next();

int count=0,dcount=0;

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

{

if( str.charAt(i)>=48 && str.charAt(i)<=57)

{

dcount++;

}

if(!((str.charAt(i)>=65 && str.charAt(i)<=90)||(str.charAt(i)>=97 &&str.charAt(i)<=122)||(str.charAt(i)>=48 && str.charAt(i)<=57)))

{

count++;

}

if((str.charAt(i)>=65 && str.charAt(i)<=90) ||(str.charAt(i)>=97 &&str.charAt(i)<=122))

{

System.out.print(str.charAt(i));

}

}

System.out.println("\ntotal number of digits removed ="+dcount);

System.out.println("total number of special characters removed = "+(count));

}

}

class Test

{

public static void main(String args[])

{

Aravind m = new Aravind();

m.read();

}

}// write a java program to read n strings from keyboard and then print the srings wch begins with the particular character

import java.util.Scanner;

class ReadString

{

Scannersc=new Scanner(System.in);

int n;

String s[];

char sval,eval;

void read()

{

n=sc.nextInt();

s=new String[n];

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

{

s[i]=sc.nextLine();

}

sval=sc.next();

eval=sc.next();

}

void fun()

{

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

{

if(s[j].startswith(&ch) && s[j].endswith(&ch))

{

}

}

}

}

class Strings

{

public static void main(String args[])

{

ReadString s=new ReadString();

s.read();

s.fun();

}

}/\* 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();

}

}/\*Write a java program to sort the strings in lexographical order

sample

//input

4

word hard dream big

//output

big dream hard work

\*/

import java.util.Scanner;

class LOrder

{

Scanner sc= new Scanner(System.in);

int n;

String temp,Sarr[];

void read()

{

n=sc.nextInt();

Sarr=new String[n];

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

{

Sarr[i]=sc.next();

}

}

void fun()

{

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

{

for(int j=i+1;j<Sarr.length;j++)

{

if(Sarr[i].compareTo(Sarr[j])>0)

{

temp=Sarr[i];

Sarr[i]=Sarr[j];

Sarr[j]= temp;

}

}

}

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

{

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

}

}

}

class Test

{

public static void main(String args[])

{

LOrder l=new LOrder();

l.read();

l.fun();

}

}

//////////////

import java.util.\*;

class Split

{

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

{

int split=n/2;

if(n%2==0)

{

for(int i=0;i<split/2;i++)

{

int temp=a[i];

a[i]=a[split-i-1];

a[split-i-1]=temp;

}

for(int i=0;i<split/2;i++)

{

int temp=a[split+i];

a[split+i]=a[n-i-1];

a[n-i-1]=temp;

}

}

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

{

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

}

}

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int len=sc.nextInt();

int arr[]=new int[len];

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

{

arr[i]=sc.nextInt();

}

fun(len,arr);

}

}

///////////

import java.util.\*;

class SmallestNum

{

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

{

int m=a[0];

int max=a[0];

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

{

if(m>a[i])

{

m=a[i];

}

if(max<a[i])

{

max=a[i];

}

}

System.out.println(max);

System.out.println(m);

}

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int len=sc.nextInt();

int arr[]=new int[len];

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

{

arr[i]=sc.nextInt();

}

//int m=sc.nextInt();

fun(len,arr);

}

}

///////////////////

import java.util.Scanner;

class SecLarArr1

{

//8818600028

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

{

int max=a[0];

int secMax=a[0];

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

{

if(a[i]>max)

{

secMax=max;

max=a[i];

}

else if(a[i]>secMax)

{

secMax=a[i];

}

}

System.out.println(secMax);

}

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int len=sc.nextInt();

int arr[]=new int[len];

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

{

arr[i]=sc.nextInt();

}

fun(len,arr);

}

}

//////////////

import java.util.\*;

class RevArr

{

Scanner sc=new Scanner(System.in);

int n,mid,a[],temp;

void read()

{

n=sc.nextInt();

mid=n/2;

a=new int[n];

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

{

a[i]=sc.nextInt();

}

}

void fun()

{

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

{

temp=a[i];

a[i]= a[n-i-1];

a[n-i-1]=temp;

}

}

void disp()

{

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

{

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

}

}

}

class RevArrayEle

{

public static void main(String args[])

{

RevArr rev=new RevArr();

rev.read();

rev.fun();

rev.disp();

}

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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C#, VB, Swift, Pascal, Fortran, Haskell, Objective-C, Assembly, HTML, CSS, JS, SQLite, Prolog.

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

import java.util.Scanner;

class ReverseArr

{

Scanner sc=new Scanner(System.in);

int i,n,arr[];

int start;

int end=0;

void read()

{

n=sc.nextInt();

arr=new int[n];

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

{

arr[i]=sc.nextInt();

}

start=0;

end=i-1;

}

void fun()

{

while(start<end)

{

int temp=arr[start];

arr[start]=arr[end];

arr[end]=temp;

start++;

end--;

}

}

void disp()

{

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

{

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

}

}

}

public class RevArr

{

public static void main(String[] args)

{

ReverseArr RA=new ReverseArr();

RA.read();

RA.fun();

RA.disp();

}

}

import java.util.\*;

class Palindrome

{

static void palindrome(int n,int a[])

{

int flag=0;

int i;

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

{

if(a[i]!=a[n-1-i])

{

flag=1;

break;

}

}

if(flag==0)

{

System.out.print("its pali");

}

else

{

System.out.println("its not pali");

}

}

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int len=sc.nextInt();

int arr[]=new int[len];

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

{

arr[i]=sc.nextInt();

}

palindrome(len,arr);

}

}

////////////////////

import java.util.\*;

class MaxAccurance

{

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

{

int count=0;

int maxcount=0;

int maxnum=0;

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

{

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

{

count=0;

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

{

count++;

}

if(count>maxcount)

{

maxcount=count;

maxnum=a[j];

}

}

}

System.out.println(maxnum);

}

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int len=sc.nextInt();

int arr[]=new int[len];

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

{

arr[i]=sc.nextInt();

}

int m=sc.nextInt();

fun(len,arr);

}

}

import java.util.\*;

class Fibbonaci

{

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

{

int fib,next,flag=0;

for(int i=0;i<n-2;i++)

{

fib=a[i]+a[i+1];

next=a[i+2];

if(fib!=next)

{

flag=1;

break;

}

}

if(flag==0)

{

System.out.println("its fib series");

}

else

System.out.println("its not fib serirs");

}

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int len=sc.nextInt();

int arr[]=new int[len];

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

{

arr[i]=sc.nextInt();

}

fun(len,arr);

}

}

//////////////////

import java.util.\*;

class AdjArr

{

static void fun(int n,int a[],int k)

{

int nxt=0;

int prev=0;

if(k>=0||k<=n)

{

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

{

nxt=a[i+1];

prev=a[i-1];

}

}

System.out.println(nxt+" "+prev);

}

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int len=sc.nextInt();

int arr[]=new int[len];

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

{

arr[i]=sc.nextInt();

}

int l=sc.nextInt();

fun(len,arr,l);

}

}

////////////

/\*Write a java program to print the following pattern

Note: if n<=0, print -1

Sample :

5 //input

//output

1

0 1

1 0 1

0 1 0 1

1 0 1 0 1

\*/

import java.util.Scanner;

class Pattern11

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int n;

System.out.println("enter a num:");

n=sc.nextInt();

if(n<=0)

{

System.out.println(-1);

}

else

{

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

{

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

{

System.out.print(j%2);

}

System.out.println(" ");

}

}

}

}

///////////////

import java.util.Scanner;

class Vovels

{

Scanner sc=new Scanner(System.in);

String str,Sarr[];

void read()

{

str=sc.nextLine();

Sarr=str.split(" ");

System.out.println("word vc cc");

}

void fun()

{

int vc=0,cc=0;

//System.out.println("word");

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

{

vc=0;

cc=0;

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

{

char c=Sarr[i].charAt(j);

if(c=='a'||c=='e'||c=='i'||c=='o'||c=='u')

vc++;

else

cc++;

}

System.out.print(Sarr[i]+" "+vc+" "+cc);

System.out.println();

}

}

}

class Test

{

public static void main(String args[])

{

test t=new test();

t.read();

t.fun();

}

}

/\*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

\*/

import java.util.Scanner;

class Test

{

int a[][],r,c;

void read()

{

Scanner sc=new Scanner(System.in);

r=sc.nextInt();

c=sc.nextInt();

a=new int[r][c];

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

{

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

{

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

}

}

}

void fun()

{

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

{

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

{

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

}

System.out.println();

}

}

}

class TransposeMatrix

{

public static void main(String args[])

{

Test t=new Test();

t.read();

t.fun();

}

}

/////////////

import java.util.Scanner;

class Aravind

{

Scanner sc=new Scanner(System.in);

int a[][],r,c;

void read()

{

r=sc.nextInt();

c=sc.nextInt();

a=new int[r][c];

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

{

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

{

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

}

}

}

void fun()

{

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

{

if(i%2==0)

{

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

{

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

}

}

else

{

for(int j=c-1;j>=0;j--)

{

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

}

}

}

}

}

class SnakePattern

{

public static void main(String args[])

{

Aravind m=new Aravind();

m.read();

m.fun();

}

}

//////////

import java.util.Scanner;

class SecLarArr

{

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

{

int max=0;

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

{

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

{

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

{

max=a[i];

}

}

}

System.out.println(max);

}

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int len=sc.nextInt();

int arr[]=new int[len];

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

{

arr[len]=sc.nextInt();

}

fun(len,arr);

}

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

import java.util.Scanner;

class ReverseArr

{

Scanner sc=new Scanner(System.in);

int i,n,arr[];

int start;

int end=0;

void read()

{

n=sc.nextInt();

arr=new int[n];

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

{

arr[i]=sc.nextInt();

}

start=0;

end=i-1;

}

void fun()

{

while(start<end)

{

int temp=arr[start];

arr[start]=arr[end];

arr[end]=temp;

start++;

end--;

}

}

void disp()

{

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

{

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

}

}

}

public class RevArr

{

public static void main(String[] args)

{

ReverseArr RA=new ReverseArr();

RA.read();

RA.fun();

RA.disp();

}

}

///////////import java.util.\*;

class palindrome

{

Scanner sc=new Scanner(System.in);

String strr;

String reverse(String str)

{

String rev="";

for(int i=str.lenth()-1;i>0;i++)

{

rev=str.charAt(i);

}

return rev;

}

void read()

{

strr=sc.nextLine();

String rev="";

String sarr[]=strr.split("");

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

{

rev=reverse(sarr[i]);

if(rev.equals(sarr[i]))

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

}

}

}

class pa

{

public static void main(String args[])

{

palindrome p=new palindrome();

p

}

}

/\* 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.Scanner;

class Test

{

Scanner sc=new Scanner(System.in);

int n,k,k1,k2;

void read()

{

n=sc.nextInt();

k=0;

k1=1;

k2=0;

}

void fun()

{

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

{

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

{

k2=k1+k;

System.out.print(k1+" ");

k=k1;

k1=k2;

}

System.out.println();

}

}

}

class PatternTest

{

public static void main(String args[])

{

Test t=new Test();

t.read();

t.fun();

}

}

/\* You are updating the username policy on your company's internal networking platform.

According to the policy, a username is considered valid if all the following

constraints are satisfied:

1. The username consists of 8 to 30 characters inclusive.

If the username consists of less than or greater than characters, then it is an invalid username.

2. The username can only contain alphanumeric characters and underscores (\_).

Alphanumeric characters describe the character set consisting of lowercase characters , uppercase characters , and digits .

3. The first character of the username must be an alphabetic character,

i.e., either lowercase character or uppercase character .

For example:

Username Validity

Kmit INVALID; Username length < 8 characters

Kmitngit VALID

Kmit\_123 VALID

1$Kmitngit INVALID; Username begins with non-alphabetic character

Kmitngit?123 INVALID; '?' character not allowed

Sample :

Kmit //input

INVALID //output

Sample 2 :

Kmit\_123 //input

VALID //output

\*/

import java.util.\*;

class UserNamePolicy

{

public static void main(String [] args)

{

Scanner sc=new Scanner(System.in);

String str=sc.nextLine();

int countlen=str.length();

int countfirst=0;

int cc=0;

if(countlen<8 && countlen>30)

{

System.out.println("INVALID; Username length < 8 characters");

cc++;

}

else

{

if(!(Character.isLetter(str.charAt(0))))

{

System.out.println("INVALID; Username begins with non-alphabetic character");

cc++;

}

else

{

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

{

if(!(Character.isLetter(str.charAt(i)) ||Character.isDigit(str.charAt(i)) ) )

{

if(!(str.charAt(i)=='\_'))

{

System.out.println("INVALID;"+"'"+str.charAt(i)+"'"+"character not allowed ");

cc++;

}

}

}

}

if(cc<1)

{

System.out.println("valid");

}

}

}

}

////////////

import java.util.\*;

class palindrome

{

Scanner sc=new Scanner(System.in);

String strr;

String reverse(String str)

{

String rev="";

for(int i=str.length()-1;i>=0;i--)

{

rev=rev+str.charAt(i);

}

return rev;

}

void read()

{

strr=sc.nextLine();

//String rev="";

String sarr[]=strr.split(" ");

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

{

String rev=reverse(sarr[i]);

if(rev.equals(sarr[i]))

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

}

}

}

class paliTest

{

public static void main(String args[])

{

palindrome p=new palindrome();

p.read();

}

}

//////////////////

/\*

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

\*/

import java.util.Scanner;

class Test

{

int a[],n,pos,insert,i;

void read()

{

Scanner sc=new Scanner(System.in);

n=sc.nextInt();

if(n<0)

{

System.out.println(-1);

return;

}

a=new int[n+1];

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

{

a[i]=sc.nextInt();

}

pos=sc.nextInt();

// insert=sc.nextInt();

if(pos<=n)

{

insert=sc.nextInt();

fun();

}

else

System.out.println(-1);

}

void fun()

{

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

{

if(i==(pos-1))

{

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

{

a[j+1]=a[j];

}

a[i]=insert;

}

}

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

{

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

}

// System.out.print(a[i]);

}

}

class InsertElement

{

public static void main(String args[])

{

Test t=new Test();

t.read();

t.fun();

}

}