



JAVA 2 - Elab

Programming In Java (SRM Institute of Science and Technology)



Scan to open on Studocu

INPUT AND OUTPUT

ELAVENIL RUNS A POPULAR BAKERY IN HER NATIVE

```
import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        int n = input.nextInt();

        System.out.println((n/2)+1);

    }

}
```

PHOENIX MALL IN THE CAPITAL CITY OF WASHINGTON

```
import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        int n = input.nextInt();

        int m = input.nextInt();

        int a = input.nextInt();

        System.out.println(((n+a-1)/a)*((m+a-1)/a));

    }

}
```

```
}
```

DURING THE IPL MATCH BETWEEN CSK AND MI

```
import java.io.*;
import java.util.*;

public class Class310621205038 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int iplno = input.nextInt();
        System.out.println(Integer.toOctalString(iplno));
        System.out.println(Integer.toHexString(iplno));
    }
}
```

PROFESSOR JD HAS LOT OF OPTION

```
import java.io.*;
import java.util.*;

public class Class310621205038{
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        float b = input.nextFloat();
        float ls = input.nextFloat();
        b=b*b;
        ls=ls*ls;
        double rs1=Math.sqrt(ls-b);
        double rs2=Math.sqrt(ls+b);
        System.out.println(String.format("%.5f",rs1)+"
"+String.format("%.5f",rs2));
    }
}
```

```
    }  
}
```

TINA'S BROTHER GAVE HER A FRIENDLY TASK

```
import java.io.*;  
import java.util.*;  
public class Class310621205038 {  
    public static void main(String[] args) {  
        Scanner input = new Scanner(System.in);  
        int n = input.nextInt();  
        int x=(n*(n+1)*(2*n+1))/6;  
        System.out.println(x);  
    }  
}
```

TINA'S TRAINER HAVE GIVEN

```
import java.io.*;  
import java.util.*;  
public class Class310621205038{  
    public static void main(String[] args) {  
        Scanner input = new Scanner(System.in);  
        int U = input.nextInt();  
        int V = input.nextInt();  
        int a=(U*V);  
        int b=a/2;
```

```
        int c=a%2;

        System.out.println(b+c);
    }
}
```

ELAVENIL HAS A CHESSBOARD

```
import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        int n = input.nextInt();

        int m = input.nextInt();

        System.out.println((n-1)*(m-1));

    }

}
```

ARIF CAME FROM A VERY LOW INCOME

```
import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        float val1 = input.nextFloat();

        float val2 = input.nextFloat();

    }

}
```

```

float ans = val1*val2;

System.out.println(String.format("%.4f",ans));

}

}

```

BINITA IS PLAYING A CHESS

```

import java.io.*;
import java.util.*;

public class Class310621205038{

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        int n = input.nextInt();

        int m = input.nextInt();

        int ans=2*m*n-m-n; System.out.println(ans);

    }

}

```

THE EMPLOYEES OF ONE MILLION DOLLAR

```

import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        char Asc=input.next().charAt(0);

        int a=Asc;

```

```
        System.out.println(a);

    }

}
```

NATHAN WAS A STUDENT BY MORNING

```
import java.io.*;
import java.util.*;

public class Class310621205038{

    public static void main(String[] args) {

        Scanner input=new Scanner(System.in);

        int prodid,billid,quantity; float price,totprice;

        billid=input.nextInt(); prodid=input.nextInt(); price=input.nextFloat();
        quantity=input.nextInt();

        totprice=price*quantity;

        System.out.println(String.format("%.2f",totprice));

    }

}
```

SALIMA SAW A PAIR OF BEAUTIFUL DRESS

```
import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);
```

```

        int feet = input.nextInt(); int inches = input.nextInt();

        double a=feet*12*2.54; double b=inches*2.54;

        System.out.println(String.format("Your height in centimeters
is: %.2f",a+b));

    }

}

```

ARIF PLANNED TO MAKE A ROOM CLEANING

```

import java.io.*;
import java.util.*;

public class Class310621205038{

    public static void main(String[] args) {

        Scanner input=new Scanner(System.in);

        float length = input.nextFloat();

        float width = input.nextFloat();

        System.out.println(String.format("%.2f sq.ft",length*width));

    }

}

```

MALLAIAH HAS DEPOSITED AN AMOUNT

```

import java.io.*;
import java.util.*;

```

```

public class Class310621205038 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        float amount = input.nextFloat();
        float rate = input.nextFloat();
        float time = input.nextFloat();
        float i =(amount*rate*time)/100;
        System.out.println(String.format("%.4f",i));

    }
}

```

RAM WAS WORKING AS A MARKETING

```

import java.io.*;
import java.util.*;

public class Class310621205038 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int km = input.nextInt();
        float lpd = input.nextFloat();
        System.out.println(String.format("%.3f",km/lpd));

    }
}

```

FLIPKART ANNOUNCED THE YEAR END

```

import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        int N = input.nextInt(); double a=Math.pow(N,1); double
b=Math.pow(N,2); double c=Math.pow(N,3);

        int d,e,f; d=(int)a; e=(int)b; f=(int)c;

        System.out.println(String.format("%d %d %d",d,e,f));

    }

}

```

SURYA WAS USED TO WEAR A SMARTWATCH

```

import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        int sec,h,m,s; sec=input.nextInt();

        h=sec/(60*60); sec-=h*(60*60);

        m=sec/60; sec-=m*60;

        s=sec;

        System.out.println(String.format("%dH:%dM:%dS",h,m,s));

    }

}

```

JANNU AND PREETHI BOTH WENT TO

```
import java.io.*;
import java.util.*;
public class Class310621205038 {
    public static void main(String[] args) {
        float height,base,area;
        Scanner input=new Scanner(System.in);
        height = input.nextFloat(); base = input.nextFloat();
        area=(height*base)/2;
        System.out.println(String.format("%.3f",area));
    }
}
```

SAJID LOVES SUPER HERO

```
import java.io.*;
import java.util.*;
import java.lang.Math;
public class Class310621205038 {
    public static void main(String[] args) {
        Scanner input=new Scanner(System.in);
        int a=input.nextInt(); int b=input.nextInt(); int c=input.nextInt();
        int s=(a+b+c)/2;
        System.out.println(String.format("%.2f",Math.sqrt(s*(s-a)*(s-b)*(s-
c)))));
    }
}
```

```
}
```

ROOPA AND ATIFA ARE SIS

```
import java.io.*;
import java.util.*;
public class Class310621205038 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        float num1,num2;
        num1=input.nextFloat(); num2=input.nextFloat();
        float a=num1+num2;
        System.out.println((int)a);
    }
}
```

CALEB IS A PHYSICIST WORKING FOR DAS

```
import java.io.*;
import java.util.*;
public class Class310621205038{
    public static void main(String[] args) {
        Scanner input=new Scanner(System.in);
        double distance = input.nextDouble();
        double gravity,vf; gravity=9.8;
        vf=Math.sqrt(2*distance*gravity);
        System.out.println(String.format("%.2f m/s",vf));
    }
}
```

```
    }  
}
```

SATHYA IS AN MATH EXPERT TRAINING

```
import java.io.*;  
import java.util.*;  
public class Class310621205038 {  
    public static void main(String[] args) {  
        Scanner input = new Scanner(System.in);  
        double base = input.nextDouble();  
        double exp = input.nextDouble();  
        System.out.println(String.format("%.2f",Math.pow(base,exp)));  
    }  
}
```

FORD ONCE WAS GOING DOWN BY LOOSING...

```
import java.io.*;  
import java.util.*;  
public class Class310621205038 {  
    public static void main(String[] args) {  
        Scanner input = new Scanner(System.in);  
        int seconds = input.nextInt(); int days,hours,minutes;  
        days=seconds/86400; seconds-=days*86400;  
        hours=seconds/3600; seconds-=hours*3600;  
        minutes=seconds/60; seconds-=minutes*60;
```

```

        System.out.println(String.format("The Duration is %d days %d hours
%d minutes %d seconds",days,hours,minutes,seconds));
    }
}

```

SHIVA IS PART OF THE POPULAR

```

import java.io.*;
import java.util.*;
public class Class310621205038 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        double base1 = input.nextDouble();
        double base2 = input.nextDouble();
        double height = input.nextDouble();
        double area=((base1+base2)*height)/2;
        System.out.println(String.format("%.2f",area));
    }
}

```

AARAV AND NATHAN WHO LIVE..

```

import java.io.*;
import java.util.*;
public class Class310621205038 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);

```

```

float a = input.nextFloat(); float b = input.nextFloat();

String ans= ((int)a==(int)b)?"Approximate number":"Not an
Approximate number";

System.out.println(ans);
}
}

```

ARULMOZHIVARMAN AND HIS WIFE

```

import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        int mpg = input.nextInt();

        double ans=(235.17)/mpg;

        System.out.println(String.format("%.2f L/100 km",ans));

    }

}

```

YASIR WAS MAKING A KITE

```

import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        double s1 = input.nextDouble();
    }

}

```

```

        double s2 = input.nextDouble();
        double s3 = input.nextDouble();
        double s=(s1+s2+s3)/2;
        double ans = Math.sqrt(s*(s-s1)*(s-s2)*(s-s3));
        System.out.println(String.format("%.2f",ans));
    }
}

```

KRISHNA HAS JUST ARRIVED

```

import java.io.*;
import java.util.*;

public class Class310621205038 {
    public static void main(String[] args) {
        Scanner input=new Scanner(System.in);
        int m = input.nextInt(); int n = input.nextInt();
        int a=m*n;
        System.out.println(String.format("%d",(a/2)+a%2));
    }
}

```

DARSH IS BASICALLY A WATCH MECH

```

import java.io.*;
import java.util.*;

public class Class310621205038{
    public static void main(String[] args) {

```

```

Scanner input = new Scanner(System.in);

int days = input.nextInt(); int hours = input.nextInt(); int minutes =
input.nextInt(); int seconds = input.nextInt();

int ans=(days*86400)+(hours*3600)+(minutes*60)+seconds;

System.out.println(String.format("%d seconds",ans));

    }
}

```

ARAV WAS A POPULAR MATHS TRAINER

```

import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        int num = input.nextInt();

        System.out.println(num%10);

    }

}

```

DATATYPES AND OPERATOR

FRANKLIN HAS UNLIMITED NUMBER OF COINS

```

import java.io.*;
import java.util.*;

```

```

public class Class310621205038{
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int n = input.nextInt(); int S = input.nextInt();
        int a=S%n;
        int ans=(S%n==0)?(S/n):((S/n)+1);

        System.out.println(ans);}
}

```

PAUL RUDD NEEDS TO MAKE A RECTANGULAR BOX

```

import java.io.*;
import java.util.*;
import java.lang.Math;
public class Class310621205038 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        long a,b; a=sc.nextLong(); b=sc.nextLong();
        long x=a*a-24*b;
        double y=(a-Math.sqrt(x))/12;
        double res=(double)(b/2.0)*y-((a/4.0)*y*y)+y*y*y;
        System.out.println(String.format("%.2f",res));

    }
}

```

FELIX STARTS WITH AN INTEGER N

```
import java.io.*;
import java.util.*;
import java.lang.Math;
public class Class310621205038 {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();
        int m=Math.min(n&1,0);
        int s=(n%2==0)?(2):(3);
        System.out.println(s);
    }
}
```

BEING A NONCONFORMIST

```
import java.io.*;
import java.util.*;
public class Class310621205038 {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        long n,k;
        n=sc.nextLong();
        k=sc.nextInt();
        long ans=(k<=(n+1)/2)?(k*2-1):((k-(n+1)/2)*2);
        System.out.println(ans);
    }
}
```

```
    }  
}
```

MR.DANA WHITE IS THE MANAGER

```
import java.util.Scanner;  
  
public class Class310621205038 {  
    public static void main(String[] args) {  
        Scanner input = new Scanner(System.in);  
        int a,b,c,d;  
  
        a = input.nextInt();  
        b = input.nextInt();  
  
        // Calculate c and d after performing the ceil operation  
        c = (int) Math.ceil(a / 2.0);  
        d = (int) Math.ceil(b / 2.0);  
  
        int result = c * d;  
        System.out.println(result);  
    }  
}
```

BRYAN MILLS NEEDS A FENCE

```
import java.io.*;
```

```

import java.util.Scanner;

public class Class310621205038 {

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

        int y,x;

        x = input.nextInt();

        y = (360%(180-x));

        System.out.println(y==0 ? "YES": "NO");

    }

}

```

DURING THE LA LIGA MATCH BETWEEN REAL

```

import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner r=new Scanner(System.in);

        int a=r.nextInt(); int b=r.nextInt();

        System.out.println(a>=b);

        System.out.println(a<=b);

    }

}

```

LETS CONSIDER A TABLE CONSISTING OF N

```

import java.util.*;

public class Class310621205038 {

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

        int n,x;

        n=sc.nextInt();

        x=sc.nextInt();

        int c=0;

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

            if (x % i == 0 && x / i <= n) c++;

        System.out.println(c); } }

```

AFTER FINISHING EATING HER BUN

```

import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        int n,m;

        n = sc.nextInt(); m = sc.nextInt();

        long ans=0;

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

            ans+=m/5;

            if(m%5>=5-(i%5))ans++; }

        System.out.println(ans); } }

```

A SOLDIER WANTS TO BUY W APPLE

```

import java.util.Scanner;

public class Class310621205038 {

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

        int k,w,n,a,x=0;

        k=sc.nextInt();
        n=sc.nextInt();
        w=sc.nextInt();
        w=w*(w+1)/2;
        a=k*w-n;
        if(a<=0)
            a=0; System.out.println(a); } }

```

CONSIDER THE INFINITE SEQUENCE OF INTEGER

```

import java.util.*;

public class Class310621205038{

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

        long n = sc.nextLong();

        long x = (long)Math.sqrt(2*n);
        long res = n - (x*(x-1))/2;
        res=res%x==0?x:res%x;

        System.out.println(res);
    } }

```

SANTA CLAUS IS THE FIRST WHO CAME TO THE CHRISTMAS

```

import java.util.Scanner;

```

```

public class Class310621205038 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n,m,k;
        int p,l,d;
        n = sc.nextInt();
        m = sc.nextInt();
        k = sc.nextInt();
        p = (int)Math.floor((k-1)/2);
        l = (int)Math.floor(p/m)+1;
        d = (p%m)+1;
        System.out.println(l+" "+d+" "+((k%2==0) ? "R" : "L"));
        sc.close();
    }
}

```

IT'S ONE MORE SCHOOL DAY NOW

```

import java.io.*;
import java.util.*;

public class Class310621205038{
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        long n,k;
        n=input.nextLong(); k=input.nextLong();
        long ans=n%k; long sub=n-k;
        String res=(ans==sub)?"YES":"NO";
        System.out.println(res);
    }
}

```

```
    }  
}
```

AFTER A PROBATIONARY PERIOD IN THE GAME

```
import java.util.*;  
  
public class Class310621205038 {  
    public static void main(String[] args){  
        Scanner sc = new Scanner(System.in);  
        long n=sc.nextLong();  
        System.out.println(1+(3*n*n)+(3*n));  
    }  
}
```

CONTROL AND LOOPING

ROBERT IS PLAYING IN A T20

```
import java.io.*;  
import java.util.*;  
  
public class Class310621205038 {  
    public static void main(String[] args) {  
        Scanner input=new Scanner(System.in);  
        int r,o,c;  
        r=input.nextInt(); o=input.nextInt(); c=input.nextInt();  
        int bo=20-o;  
        int br=r-c;  
        int ans=bo*6*6;  
        if(ans>br) System.out.println("YES");  
    }  
}
```

```

        else System.out.println("NO");

    }

}

```

CHARLES HAS THREE SOCKS IN HIS DRAWER

```

import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input=new Scanner(System.in);

        int a,b,c;

        a=input.nextInt(); b=input.nextInt(); c=input.nextInt();

        if(a==b || b==c || c==a) System.out.println("YES");

        else System.out.println("NO");

    }

}

```

RICHARD HAS A MATH TEST

```

import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        float r,h,v;

        r=input.nextFloat(); h=input.nextFloat(); v=input.nextFloat();

        double cylinder=3.14f*(r*r)*h;

        double cone=(3.14f*(r*r*r)*h)/3;

    }

}

```

```

        if(cylinder==v) System.out.println("Cylinder");
        else System.out.println("Cone");

    }
}

```

MAX HAS X COINS WORTH 1 RUPEE

```

import java.io.*;
import java.util.*;

public class Class310621205038 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int n=input.nextInt(); int i=0;
        while(i<n){
            int a=input.nextInt(); int b=input.nextInt();
            int ans=a+(2*b);
            if(ans%2==0) System.out.println("YES");
            else System.out.println("NO");
            i++;
        }

    }
}

```

BRUCE HAS JUST ENTERED

```

import java.io.*;

```

```

import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        long n = input.nextLong(); int count=0;

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

            if(i%7==0) count++;

        }

        System.out.println(count);

    }

}

```

SELVAN IS SOLVING HIS MATH HOMEWORK

```

import java.io.*;
import java.util.*;

public class Class310621205038{

    public static void main(String[] args) {

        Scanner x = new Scanner(System.in);

        int n,sum;

        n=x.nextInt(); sum=(n*(n+1))/2;

        if(sum%2!=0) System.out.println(String.format("%d\nOdd",sum));

        else System.out.println(String.format("%d\nEven",sum));

    }

}

```

JORDAN WORKS AT THE ADMISSION OFFICE

```

import java.io.*;
import java.util.*;
public class Class310621205038 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        char s=input.next().charAt(0);
        switch(s){
            case 'M': System.out.println("Male"); break;
            case 'm': System.out.println("Male"); break;
            case 'F': System.out.println("Female"); break;
            case 'f': System.out.println("Female"); break;
        }
    }
}

```

BENNY OPENED A COMPANY

```

import java.io.*;
import java.util.*;
public class Class310621205038 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int n=input.nextInt();
        for(int i=0;i<n;i++){
            int ans=input.nextInt();
            int rem=ans%4;
            if(rem>=2) System.out.println("YES");
        }
    }
}

```

```

        else if(rem<2) System.out.println("NO");
    }

}

}

```

VINCENT OWNS A GROCERY STORE

```

import java.io.*;
import java.util.*;

public class Class310621205038 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        float x,y; char s;

        x=input.nextFloat(); s=input.next().charAt(0); y=input.nextFloat();

        switch(s){

            case '+': System.out.println(String.format("%.2f",x+y)); break;
            case '-': System.out.println(String.format("%.2f",x-y)); break;
            case '*': System.out.println(String.format("%.2f",x*y)); break;
            case '/': System.out.println(String.format("%.2f",x/y)); break;

        }

    }

}

```

MIKE'S PHONE SUDDENLY

```

import java.io.*;
import java.util.*;

```

```

public class Class310621205038 {
    public static void main(String[] args) {
        Scanner input=new Scanner(System.in);
        int a,b;
        int n=input.nextInt();
        for(int i=0;i<n;i++){
            a=input.nextInt(); b=input.nextInt();
            int rem=a%b;
            if(rem%2==0) System.out.println("EVEN");
            else System.out.println("ODD");
        }
    }
}

```

BEATRICE HAS BEEN GIVEN Q

```

import java.util.*;
public class Class310621205038 {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        int l,r,d;
        int t = s.nextInt();
        while(t>0) {
            l = s.nextInt();
            r = s.nextInt();
            d = s.nextInt();
            if(d<l)

```

```
System.out.println(d);  
else  
System.out.println((r/d)*d+d);  
t--; } } }
```

ARRAY

HANK IS PARTICIPATING IN A HACK

```
import java.util.Scanner;  
  
public class Class310621205038 {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
  
        int n,m,j,s1=0,s2=0;  
  
        n = sc.nextInt();  
  
        m = sc.nextInt();  
  
        int arr[] = new int[n];  
  
        for(j=0;j<n;j++){  
            arr[j]=sc.nextInt();  
        }  
  
        for(int i=0;i<n;i++){  
            s1+=arr[i];  
        }  
  
        for(int i=0;i<m;i++){
```

```

s2+=arr[i];
}
if(s1>s2){
System.out.println("YES");
}
else{
System.out.println("NO");
}
}
}
}

```

FREDERICK OPENED HIS NEW STORE

```

import java.util.*;

public class Class310621205038 {
    public static void main(String[] args) {
        Scanner S = new Scanner(System.in);
        int n,i,sum=0;
        n = S.nextInt();
        int s[] = new int[n];
        for(i=0;i<n;i++)
        {
            s[i]= S.nextInt();
        }
        for(i=0;i<3;i++)
        {
            Arrays.sort(s);

```

```
sum+=s[i];  
}  
System.out.println(sum);  
}  
}
```

LUCAS AND HIS FRIEND

```
import java.util.*;  
  
public class Class310621205038 {  
    public static void main(String[] args) {  
        int n,count=0;  
        int i;  
        Scanner sc = new Scanner(System.in);  
        n = sc.nextInt();  
        int []arr=new int[n];  
        for(i=0;i<n;i++)  
        {  
            arr[i]=sc.nextInt();  
        }  
        int v = sc.nextInt();  
        for(i=0;i<n;i++){  
            if(arr[i]==v){  
                count++;  
            }  
        }  
        System.out.println(count);  
    }  
}
```

```
}
```

JACOB HAS BEEN BUNKING CLASSES

```
import java.util.Scanner;
import java.util.Arrays;
public class Class310621205038 {
    public static void main(String[] args) { Scanner sc = new Scanner(System.in);
    int count=0,n,i;
    n = sc.nextInt();
    int[] arr=new int[n];
    for(i=0;i<n;i++)
    {
        arr[i]=sc.nextInt();
        if(arr[i]==0)
        {
            count++;
        }
    }
    System.out.println(count);
    }}
```

ONE OF MY FRIEND AIDAN LOVES COINS

```
import java.util.Scanner;
public class Class310621205038 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int max=0,element_having_max_freq = 0;
        int n = sc.nextInt();
```

```

int t = n;
int[] a = new int[100];
for(int i=0;i<n;i++){
a[i]=sc.nextInt();
int count = 0;
for(int j=0;j<t;j++) {
if (a[i] == a[j]) {
count++;
}
if(count>max) {
max = count;
element_having_max_freq = a[i];
}}}
System.out.println(element_having_max_freq);
System.out.println(max);
}
}

```

DEREK AND GAVIN

```

import java.util.*;

public class Class310621205038 {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
int n = sc.nextInt();
int[] arr1=new int[n];
int[] arr2=new int[n];
for(int k=0;k<n;k++) {

```

```

arr1[k]=sc.nextInt();
}
for(int k=0;k<n;k++) {
arr2[k]=sc.nextInt();
}
for(int k=0;k<n;k++){
if(arr1[k]>arr2[k]){

    System.out.print(arr1[k]);
System.out.print(arr2[k]+" ");
}
else if(arr1[k]==arr2[k]){
System.out.print(arr1[k]);
System.out.print(arr2[k]+" ");
}
else if(arr1[k]<arr2[k]){
System.out.print(arr2[k]);
System.out.print(arr1[k]+" ");
}
}
}
}
}

```

MARC HAS BEEN GIVEN N NUMBER

```

import java.util.*;

public class Class310621205038 {

public static void main(String[] args) {

```

```

Scanner input = new Scanner(System.in);
int n,a,k=1000,j,ans=0,x;
int []b=new int[100];
int []res=new int[k+1];
n = input.nextInt();
a = input.nextInt();
for(j=0;j<k+1;j++)res[j]=0;
for(j=0;j<n;j++){
b[j]=input.nextInt();
x=(b[j]%(a+1));
res[x]++;
if(res[x]>n-2)
ans=1;
}
if(ans>0)
System.out.println("YES");
else
System.out.println("NO");
}
}

```

CLASSES AND OBJECT

THERE ARE TWO RECTANGELS

```
import java.util.Scanner;
```

```
class Rectangle1 {  
    int U,V;  
    int area1() {  
        int ans1 = U * V;  
        return ans1;  
    }  
}
```

```
class Rectangle2 {  
    int X,Y;  
    int area2() {  
        int ans2 = X * Y;  
        return ans2;  
    }  
}
```

```
public class Class310621205038 {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        Rectangle1 R1=new Rectangle1();  
        Rectangle2 R2=new Rectangle2();  
        R1.U= sc.nextInt();R1.V= sc.nextInt();  
        R2.X= sc.nextInt();R2.Y= sc.nextInt();  
        int res1 = R1.area1();  
        int res2 = R2.area2();  
        if (res1 > res2)
```

```

        System.out.println(res1);
    else if (res1 < res2)
        System.out.println(res2);
    else
        System.out.println(res1);
    }
}

```

BRYANT IS PARKING HIS CAR

```
import java.util.Scanner;
```

```

class Plan1 {
    int X, T;
    int p1() {
        return X * T;
    }
}

```

```

class Plan2 {
    int Y;
    int p2() {
        return Y;
    }
}

```

```

public class Class310621205038 {
    public static void main(String[] args) {

```

```

Scanner sc = new Scanner(System.in);

Plan1 P1=new Plan1();

Plan2 P2=new Plan2();


P1.T= sc.nextInt();

P1.X= sc.nextInt();

P2.Y= sc.nextInt();


int result = (P1.p1() < P2.p2()) ? P1.p1() : P2.p2();

System.out.println(result);

}

}

```

CHRIS BUMSTEAD IS GEARING

```

import java.io.*;
import java.util.*;

class TrainingMat{

    int l,b;

    int mat(){return l*b;}

}


class TrainingCenter{

    int L,B;

    int center(){

        return L*B;

    }

}

```

```

public class Class310621205038 {
    public static void main(String[] args) {
        Scanner Sc= new Scanner(System.in);

        TrainingMat mat=new TrainingMat(); TrainingCenter hall=new
        TrainingCenter();

        mat.l= Sc.nextInt(); mat.b= Sc.nextInt(); hall.L= Sc.nextInt(); hall.B=
        Sc.nextInt();

        System.out.println(hall.center()/mat.mat());

    }
}

```

THE CAB FARE IN LEICESTER

```

import java.util.*;

public class Class310621205038 {
    protected static class InitialFare{
        int R,P;
    }

    protected static class SubsequentFare{
        int Q,D;
    }

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        InitialFare IF= new InitialFare();
        SubsequentFare SF= new SubsequentFare();
        IF.R= sc.nextInt();
    }
}

```

```

IF.P= sc.nextInt();
SF.Q= sc.nextInt();
SF.D= sc.nextInt();
System.out.println(IF.R*IF.P+(SF.D-IF.R)*SF.Q);
}
}

```

KENDRICK HAS BEEN STUDYING

```

import java.util.Scanner;
class RectPyramidArea
{
    protected float x,y,z;
}

public class Class310621205038 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        RectPyramidArea area=new RectPyramidArea();
        area.x= sc.nextFloat();
        area.y= sc.nextFloat();
        area.z= sc.nextFloat();
        float a = (area.x*area.y*area.z)/3;
        System.out.println(String.format("Volume of Rectangular Pyramid: %.4f",a));
    }
}

```

THERE ARE THREE STICKS WITH INT

```

import java.util.Scanner;
class StickRectangles

```

```

{
    int s1,s2,s3;
}

public class Class310621205038 {
    public static void main(String[] args) {
        StickRectangles stick=new StickRectangles();
        Scanner S = new Scanner(System.in);
        stick.s1= S.nextInt();
        stick.s2= S.nextInt();
        stick.s3= S.nextInt();
        if(stick.s1 == stick.s2+stick.s3 || stick.s2 == stick.s1+stick.s3 || stick.s3 ==
        stick.s1+stick.s2)
        {
            System.out.println("POSSIBLE");
        }
        else
        {
            System.out.println("NOT POSSIBLE");
        }
    }
}

```

DURING THE WINTER HOLIDAYS

```

import java.util.Scanner;

class ChristmasBalls{

    long A,B,x,y,z;

}

```

```

public class Class310621205038 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        ChristmasBalls happy=new ChristmasBalls();
        happy.A= sc.nextLong();
        happy.B= sc.nextLong();
        happy.x= sc.nextLong();
        happy.y= sc.nextLong();
        happy.z= sc.nextLong();
        long ans=0;
        if(2*happy.x+happy.y>happy.A) {
            ans+=((2*happy.x)+happy.y)-happy.A;
        }
        if(3*happy.z+happy.y>happy.B) {
            ans+=((3*happy.z+happy.y)-happy.B);
        }
        System.out.println(ans);
    }
}

```

ON VACATIONS N PUPILS

```

import java.util.*;
class Excursion{
    long n,k;
}
class Speed{
    double l,v1,v2;
}

```

```

}

public class Class310621205038 {
    public static void main(String[] args) {
        Excursion obj=new Excursion();
        Speed obj1=new Speed();
        Scanner sc = new Scanner(System.in);
        obj.n= sc.nextLong();
        obj1.l= sc.nextDouble();
        obj1.v1= sc.nextDouble();
        obj1.v2= sc.nextDouble();
        obj.k= sc.nextLong();
        double m=(obj.n-1)/obj.k+1;
        double v=obj1.v1+obj1.v2;
        double x=obj1.l*v*obj1.v2/(m*v*obj1.v2-(m-1)*(obj1.v2-obj1.v1)*obj1.v2);
        System.out.println(String.format("%.4f",(float)x/obj1.v2+(obj1.l-x)/obj1.v1));
    }
}

```

A SOLDIER WANTS TO BUY W APPLES IN THE SHOP

```

import java.util.Scanner;

class SoldierApples{
    int apple1,cash,numofapples,a;
    int sa(){
        numofapples=numofapples*(numofapples+1)/2;
        a=apple1*numofapples-cash;
        return a;
    }
}

```

```

}

public class Class310621205038 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int apple1,cash,numofapples;
        SoldierApples fruit=new SoldierApples();
        fruit.apple1= sc.nextInt();
        fruit.cash= sc.nextInt();
        fruit.numofapples= sc.nextInt();
        int res=fruit.sa();
        if(res<=0) System.out.println("NOT NEEDED");
        else System.out.println(res);

    }
}

```

METHODS

ALFRED LIKES EVERYTHING INFINITE

```

import java.util.Scanner;

public class Class310621205038 {
    public static void infsequence(int x,int y,int z){
        if(z==0) {
            if(x==y){
                System.out.println("YES");
            }
            else {
                System.out.println("NO");
            }
        }
    }
}

```

```

}
return;}
if((y-x)%z==0 && (y-x)/z>=0){
System.out.println("YES");
}
else {
System.out.println("NO");
}}
public static void main(String[] args) {
Scanner sc=new Scanner(System.in);
int a,b,c;
a= sc.nextInt();
b= sc.nextInt();
c= sc.nextInt();
infsequence(a,b,c);
}}

```

SEAN IS AN ENGINEERING GRADUATE

```

import java.io.*;
import java.util.*;
public class Class310621205038 {
    public static int s(int n){
        int r,sum=0; r=n;
        while(r>0){
            int digit=r%10;
            sum+=digit;
            r/=10;
        }
    }
}

```

```

    }
    return sum;
}

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

```

TYGA HAS CLOSED HIS RESTAURANT

```

import java.io.*;
import java.util.*;

public class Class310621205038 {
    static int salad(int N,int X){
        int ans=N/2;
        if(ans>X) return X;
        else return ans;
    }

    public static void main(String[] args) {
        Scanner input=new Scanner(System.in);
        int m,n;
        m=input.nextInt(); n=input.nextInt();
        System.out.println(salad(m,n));
    }
}

```

STRINGS

LEVEL 1

TRAVIS SCOTT SHARED PICTURES

```
import java.util.Scanner;
import java.lang.String;
public class Class310621205038 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        String s;
        s=sc.nextLine();
        s = s.replaceAll( "Travis" , "Batman" );
        System.out.println(s); } }
```