

Input and output

level1

Professor JD

```
#include <stdio.h>
#include <math.h>
int main(){
float b,ls,rs1,rs2;
scanf("%f %f",&b,&ls);
b=b*b;
ls=ls*ls;
rs1=sqrt(ls-b);
rs2=sqrt(ls+b);
printf("%.5f %.5f",rs1,rs2);
return 0;}
```

Lasya bought volleyball

```
#include <stdio.h>
int main()
{
float radiusofball,volumeofball;
scanf("%f",&radiusofball);
volumeofball=4/3*3.14*radiusofball*radiusofball*radiusofball;
printf("\n%f",volumeofball);
return 0;
}
```

Sajid train ticket

```
#include <stdio.h>
int main()
{
int num1,num2,num3;
int sum;
scanf("%d %d %d",&num1,&num2,&num3);
sum=num1+num2+num3;
printf("\n%d",sum);
return 0;
}
```

Brinta is playing chess

```
#include <stdio.h>
int main()
{
```

```

int n,m;
int d;
scanf("%d %d",&n,&m);d=n-1+(1+2*(n-1))*(m-1);
printf("%d",d);
    return 0;
}

```

Elavenil bakery

```

#include <stdio.h>
int main(){
int n;
scanf("%d",&n);
int f;
f=n/2+1;
printf("%d",f);
    return 0;}

```

One beautiful sunday

```

#include <stdio.h>
int main()
{
float num1,num2;
double resnum1,resnum2;
scanf("%f",&num1);
scanf("%f",&num2);
scanf("%lf",&resnum1);
scanf("%lf",&resnum2);
printf("\n%lf",num1);
printf("\n%lf",num2);
    return 0;
}

```

Tina brother friendly task

```

#include <stdio.h>
int main()
{int n;
int tot_square;
scanf("%d",&n);tot_square=(n*(n+1)/2)*(2*n+1)/3;
printf("%d",tot_square);
    return 0;
}

```

Electricity officer

```

#include <stdio.h>
#include <math.h>
int main()
{
int unitconsumed,totalbillamount;

```

```

int costperunit;
scanf("%d",&unitconsumed);
scanf("%d",&costperunit);
totalbillamount=pow(unitconsumed,costperunit);
printf("\n%d",totalbillamount);
    return 0;
}

```

Rathik organised technic round

```

#include <stdio.h>
int main()
{
int testnum1,testnum2;
int sum,sub,mult,mod;
float div;
scanf("%d",&testnum1);
scanf("%d",&testnum2);
sum=testnum1+testnum2;
sub=testnum1-testnum2;
div=(float)testnum1/(float)testnum2;
mult=testnum1*testnum2;
mod=testnum1%testnum2;
printf("\nAddition : %d",sum);
printf("\nSubtraction : %d",sub);
printf("\nMultiplication : %d",mult);
printf("\nDivision : %0.3f",div);
printf("\nModulus : %d",mod);
    return 0;
}

```

Ramesh working eng clg

```

#include <stdio.h>
int main()
{
int alvqntoffood,messcnt,dividedqnt,remfood;
scanf("%d\t",&alvqntoffood);
scanf("%d",&messcnt);
dividedqnt=alvqntoffood/messcnt;
remfood=alvqntoffood%messcnt;
printf("%d %d\t",dividedqnt,remfood);
    return 0;
}

```

Binita was travelling from chennai to delhi

```

#include <stdio.h>
int main()
{

```

```

int tot_mins,hrs,mins;
scanf("%d",&tot_mins);
hrs=tot_mins/60;
mins=tot_mins%60;
printf("%d Hours and %d Minutes",hrs,mins);
    return 0;
}

```

Elavenil Chessboard

```

#include <stdio.h>
int main()
{int n,m;
int c;
scanf("%d %d",&n,&m);
c=(m-1)*(n-1);
printf("%d",c);}

```

Nancy Bought Apple

```

#include <stdio.h>
int main()
{
    int billamt,amtgiven;
    int q,r;
    scanf("%d",&amtgiven);
    scanf("%d",&billamt);
    q=amtgiven/billamt;
    r=amtgiven%billamt;
    printf("Quotient:%d\nRemainder:%d",q,r);

    return 0;
}

```

Tina's Trainer

```

#include <stdio.h>
int main()
{ int U,V;
int sum;
scanf("%2d%2d",&U,&V);
sum=U*V/2+((U%2)*(V%2));
    printf("%d",sum);
}

```

Arif Came from

```
#include <stdio.h>
int main()
{
    float val1, val2, outcome;
    scanf("%f%f", &val1, &val2);
    outcome = val1 * val2;
    printf("%.4f", outcome);

    return 0;
}
```

Phoenix Mall

```
#include <stdio.h>
int main()
{
    int n, m, a;
    int stones;
    scanf("%d %d %d", &n, &m, &a);
    stones = ((n + a - 1) / a) * ((m + a - 1) / a);
    printf("%d", stones);
    return 0;
}
```

Selvan was playing

```
#include <stdio.h>
int main()
{
    int length, width, height, surfacearea;
    scanf("%d %d %d", &length, &width, &height);
    surfacearea = 2 * (width * length + length * height + height * width);
    printf("%d", surfacearea);

    return 0;
}
```

IPL match

```
#include <stdio.h>
int main()
{
    int iplno;
    scanf("%d",&iplno);
    printf("%o",iplno);
    printf("\n%x",iplno);
    return 0;
}
```

Nathan works as HR

```
#include <stdio.h>
int main()
{
    float var1,var2,res;
    scanf("%f %f",&var1,&var2);
    res=var1+var2;
    printf("%.3f",res);

    return 0;
}
```

Employee of one million dollar

```
#include <stdio.h>
int main()
{
    char Asc;
    scanf("%c",&Asc);
    printf("%d",(int)Asc);

    return 0;
}
```

Level 2

Issac loved to do agriculture

```
#include <stdio.h>
```

```

}
Arav was a popular
#include <stdio.h>
int main()
{
    int num,daop;
    scanf("%d",&num);
    daop=num%10;
    printf("%d",daop);

    return 0;
}

```

Flow control and operation

Level1

```

Vikram started programming
#include <stdio.h>
int main(){
    int number1,number2;
    scanf("%d %d",&number1,&number2);
    if(number1<number2){
        printf("<");
    }
    else if(number1>number2){
        printf(">");
    }
    else{
        printf("=");
    }

    return 0;}

```

```

Given an N integer
#include <stdio.h>
int main(){
    int n;
    float t;
    scanf ("%d",&n);
    if(n%2==0)
        printf("%d",(n/2)/n);
    else{

```

```

    t=(n/2);
    t=(t+1)/n;
    printf("%.9f",t);}
    return 0;
}

```

Abi and janu

```

#include <stdio.h>
int main()
{
    int n;
    scanf("%d",&n);
    if(n%8==1)
        printf("%dLB",n+3);
    else if(n%8==2)
        printf("%dMB",n+3);
    else if(n%8==3)
        printf("%dUB",n+3);
    else if(n%8==7)
        printf("%dSU",n+1);
    else if(n%8==0)
        printf("%dSL",n-1);
    else if(n%8==4)
        printf("%dLB",n-3);
    else if(n%8==5)
        printf("%dMB",n-3);
    else if(n%8==6)
        printf("%dUB",n-3);
    return 0;
}

```

selvan work QC

```

#include <stdio.h>
int main()
{
    char ch;
    scanf("%c",&ch);
    if((ch>=97&&ch<=122)||((ch>=65&&ch<=90))){
        printf("ALPHABET");
    }
    else{
        printf("NOT AN ALPHABET");
    }
    return 0;
}

```

Primary maths


```

#include <stdio.h>
int main()
{int cp,sp,amt;
scanf("%d%d",&cp,&sp);
if(sp>cp)
{
    amt=sp-cp;
printf("Profit:%d",amt);
}
else if (cp>sp)
{
    amt=cp-sp;
printf("Loss:%d",amt);
}
else
{
    printf("No Profit No Loss");
}
return 0;
}

```

Brittas parent buy puppy

```

#include <stdio.h>
int main()
{
int day;
scanf("%d",&day);
if(day==1)
    printf("Monday");
else if(day==2)
    printf("Tuesday");
else if(day==3)
    printf("Wednesday");
else if(day==4)
    printf("Thursday");
else if(day==5)
    printf("Friday");
else if(day==6)
    printf("Saturaday");
else if(day==7)
    printf("Sunday");
else
    printf("Invalid Input");
    return 0;
}

```

Pari is an architect

```
#include <stdio.h>
int main()
{
    int l,b,area,peri;
    scanf("%d",&l);
    scanf("%d",&b);
    area=l*b;
    peri=2*(l+b);
    if(area>peri){
        printf("Area");
        printf("\n%d",area);
    }
    else if(area<peri){
        printf("Peri");
        printf("\n%d",peri);
    }
    else{
        printf("Eq");
        printf("\n%d",peri);
    }
    return 0;
}
```

In attack in war game

```
#include <stdio.h>
int main()
{
    int a,b,c,d;
    scanf("%d%d%d%d",&a,&b,&c,&d);
    if(d>=b)
    {
        printf("No");
    }
    else
    {
        printf("Yes");
    }
    return 0;
}
```

Yasir is a techie work

```
#include <stdio.h>
int main()
{
    int number;
    scanf("%d",&number);
    if(number<0){
        printf("NEGATIVE");
    }
}
```

```

else if(number>0){
    printf("POSITIVE");
}
else{
    printf("zero");
}

return 0;
}

```

Window of vinod room

```

#include <stdio.h>
int main()
{
    int A,B,c;
    scanf("%d %d",&A,&B);
    c=A-B*2;
    printf("%d",c);
    return 0;
}

```

Caleb and Irfan

```

#include <stdio.h>
int main()
{
    int apple1,apple2,apple3;
    scanf("%d %d %d",&apple1,&apple2,&apple3);
    if (apple2>apple1&&apple3>apple2) {
        printf("Fit into Budget");
    }
    else {
        printf("Dosen't fit into Budget");
    }
    return 0;
}

```

Aarav and Aaron

```

#include <stdio.h>
int main()
{
    int aravspeed,aaronspeed,speeddiff;
    int speedmore;
    scanf("%d %d",&aravspeed,&aaronspeed);
    speeddiff=aravspeed-aaronspeed;
    speedmore=aaronspeed-aravspeed;
}

```

```

    if (speeddiff>speedmore){
        printf("%d",speeddiff);
    }
    else{
        printf("%d",speedmore); }
        return 0;
}

```

Tarun wants to print

```

#include <stdio.h>
int main()
{
    int N,n;  scanf("%d",&N);
    n=(N/2);
    if (N%2==0){
        printf("%d",n);
    }
    else{
        printf("%d",n+1);}
        return 0;}

```

Ram went to the bank

```

#include <stdio.h>
int main()
{
    int note500,note100,note50,note20,note10,note5,note2,note1;
    note500=note100=note50=note20=note10=note5=note2=note1=0;
    int amount;
    scanf("%d",&amount);
    if(amount>=500){
        note500=amount/500;
        amount-=note500*500;
    }
    if(amount>=100){
        note100=amount/100;
        amount-=note100*100;
    }
    if(amount>=50){
        note50=amount/50;
        amount-=note50*50;
    }
}

```

```

    }
    if(amount>=20){
        note20=amount/20;
        amount-=note20*20;
    }
    if(amount>=10){
        note10=amount/10;
        amount-=note10*10;
    }
    if(amount>=5){
        note5=amount/5;
        amount-=note5*5;
    }
    if(amount>=2){
        note2=amount/2;
        amount-=note2*2;
    }
    if(amount>=1){
        note1=amount;
    }
    printf("500:%d\n",note500);
    printf("100:%d\n",note100);
    printf("50:%d\n",note50);
    printf("20:%d\n",note20);
    printf("10:%d\n",note10);
    printf("5:%d\n",note5);
    printf("2:%d\n",note2);
    printf("1:%d\n",note1);

    return 0;
}

```

Fazil frequently uses

```

#include <stdio.h>
int main()
{
    char X,Y;
    scanf("%c %c",&X,&Y);
    if (X>Y){

```

```

        printf(">"); }
    else if(X==Y){
        printf("="); }
    else{
        printf("<");
    }

    return 0;}

```

Shivan is teaching

```

#include <stdio.h>
int main()
{
    int angle1,angle2,angle3,sumofangles;
    scanf("%d %d %d",&angle1,&angle2,&angle3);
    sumofangles=angle1+angle2+angle3;
    if(sumofangles==180){
        printf("Angles are valid");
    }
    else{
        printf("Angles are not valid");
    }

    return 0;
}

```

Election commission

```

#include <stdio.h>
int main()
{
    int age;
    scanf("%d",&age);
    if(age<18){
        printf("Not Eligible");
    }
    else{
        printf("Eligible");
    }

    return 0;
}

```

While Purchasing

```
#include <stdio.h>
int main()
{ int price,quantity,totexp;
  float d,c;
  scanf("%d %d",&quantity,&price);
  if(quantity>1000){
    c=price*0.1;d=price-c;
    totexp=(float)quantity*d;
    printf("%d",totexp);}
  else
    printf("%d",price*quantity);
}
```

Rohit has A chocolate

```
#include <stdio.h>
int main()
{
  int A,B,K;
  scanf("%d %d %d",&A,&B,&K);
  if(A>=K){
    printf("%d %d",A-K,B);
  }
  else if(A<=K)
  { printf("%d %d",0,B-(K-A));}
  else {printf("%d %d",0,0);}
  return 0;
}
```

Three brothers

```
#include <stdio.h>
int main()
{int bro1,bro2,bro3,tallest;
scanf("%d%d%d",&bro1,&bro2,&bro3);
if(bro1>bro2 && bro1>bro3)
```

```

tallest=bro1;
else if (bro2>bro3)
tallest=bro2;
else
tallest=bro3;
printf("%d",tallest);
return 0;}

```

Two Monkeys

```

#include <stdio.h>
int main()
{
int x1,x2,v1,v2;
scanf("%d %d %d %d",&x1,&x2,&v1,&v2);
if((x2-x1+v2-v1)%(v1-v2)!=0)
{
printf("YES");
}
else
{
printf("NO");
}
return 0;
}

```

Tamil Selvan

```

#include <stdio.h>

int main()

{

int note50,note20,note10,note5,note2,note1,amount;

note50=note20=note10=note5=note2=note1=0;

```



```
scanf("%d",&amount);
```

```
if(amount>=50){
```

```
note50=amount/50;
```

```
amount-=note50*50; }
```

```
if(amount>=20){
```

```
note20=amount/20;
```

```
amount-=note20*20;
```

```
}
```

```
if(amount>=10){
```

```
note10=amount/10;
```

```
amount-=note10*10;
```

```
}
```

```
if(amount>=5){
```

```
note5=amount/5;
```

```
amount-=note5*5;
```

```
}
```

```
if(amount>=2){
```

```
note2=amount/2;
```

```
amount-=note2*2;
```

```

    }

    if(amount>=1){

        note1=amount;

    }

    printf("50:%d\n",note50);

    printf("20:%d\n",note20);

    printf("10:%d\n",note10);

    printf("5:%d\n",note5);

    printf("2:%d\n",note2);

    printf("1:%d\n",note1);

    return 0;

}

```

Triple of Numbers

```

#include <stdio.h>
int main()
{
    int a,b,c;
    scanf("%d %d %d",&a,&b,&c);
    if((a==c && b!=c)|| (b==c && c!=a) ){
        printf("Yes");
    }
    else{    printf("No");    }
    return 0;
}

```

Laslya looking at a friend

```
#include <stdio.h>
int main()
{
    int year;
    scanf("%d",&year);
    if((year%4 == 0) || (year%400==0))
    {
        printf("LEAP YEAR");
    }
    else
    {
        printf("NOT A LEAP YEAR");
    }
    return 0;
}
```

Arulmozhivarman is working in ship

```
#include <stdio.h>
int main()
{ char ID;
  scanf("%c",&ID);

  if(ID == 'B' || ID == 'b')
    printf("BattleShip");
  else if(ID == 'C' || ID == 'c')
    printf("Cruiser");
  else if(ID == 'D' || ID == 'd')
    printf("Destroyer");
  else if(ID == 'F' || ID == 'f')
    printf("Frigate");
  return 0;
}
```

Johit has two triangles

```
#include <stdio.h>
int main()
```

```

{ int a,b,c,d;
  scanf("%d %d %d %d",&a,&b,&c,&d); if((a*b)>=(c*d))
    printf("%d",a*b);
  else
    printf("%d",c*d);

  return 0;
}

```

Angean is a number of programming

```

#include <stdio.h>
int main()
{
  int n,r,i;
  scanf("%d %d",&n,&r);
  if(10>=n) {
    i=r+100*(10-n); printf("%d",i); }
  else printf("%d",r);
  return 0; }

```

Agathiyan is the chief

```

#include <stdio.h>
int main()
{int N;
  scanf("%d",&N);
  if(N<10)
    printf("Insufficient Earning");
  else if(N<100)
    printf("Very Low Earning");
  else if(N<1000)
    printf("Low Earning");
  else if(N<10000)
    printf("Sufficient Earning");
  else if(N>10000)
    printf("High Earning");

  return 0;
}

```

Swathi is working

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int angle1,angle2,angle3;
```

```
    scanf("%d %d %d",&angle1,&angle2,&angle3);
```

```
    if(angle1+angle2+angle3==180)
```

```
    printf("Pizza Slice is Valid");
```

```
    else
```

```
    printf("Pizza Slice is Not Valid");
```

```
        return 0;
```

```
}
```

Vishal is fighting

```
#include <stdio.h>
```

```
int main()
```

```
{int a,b;
```

```
scanf ("%d %d",&a, &b);
```

```
if(a%b==0)
```

```
printf("%d", a/b);
```

```
else if(a/b!=0)
```

```
printf("%d", (a/b)+1);
```

```
return 0;
```

```
}
```

Array n loop

level1

After complete serious investigation

```
#include <stdio.h>
int main()
{
    int t,n,h,i,l=1,count;
    scanf("%d",&t);
    while(t--)
    {
        l=1;
        count=0;
        scanf("%d",&n);
        for(i=1;i<=n;i++)
        {
            scanf("%d",&h);
            if(h==l)
            {
                count+=2;
            }
            if(h>l)
            {
                l=h;
                count++;
            }
        }
        printf("%d\n",count);
    }
    return 0;
}
```

Today is caleb birthday

```
#include <stdio.h>
int main()
{int t,n,m,k;
scanf("%d", &t);
while(t--){
    scanf("%d %d %d",&n, &m, &k);
    if((m>n && k>= (m-n)) || (n>m && k>= (n-m))){
        printf("0\n");
    }
    else if(n>m && k<(n-m)){
```

```

        printf("%d\n",n-(m+k));
    }
    else{printf("%d",m-(n+k));}
}

    return 0;
}

```

Memory n crow

```

#include <stdio.h>
int main()
{
    int competition[100002];
    int n;
    scanf("%d",&n);
    int i,sum;
    for(i=0;i<n;i++)
        scanf("%d",&competition[i]);
        for(i=0;i<n;i++){
            sum=competition[i]+competition[i+1];
            printf("%d ",sum);
        }

        return 0;
}

```

Caleb challenge selvan

```

#include <stdio.h>
#include<math.h>
void Clac_square(long int start,long int end){
    int i,count=0;
    for(i=start;i<=end;i++){
        int n=sqrt(i);
        if(n==sqrt(i))
            count++;}
    printf("%d\n",count);
}

int main(){
    long int q,start,end;
    scanf("%ld",&q);
    while(q--){
        scanf("%ld %ld",&start,&end);
        Clac_square(start,end);
    }

    return 0;
}

```

Akash fan of A.R.Rahman

```

#include <stdio.h>

```

```

int main()
{
    int nooffamilymembers;
    scanf("%d",&nooffamilymembers);
    for(int i=nooffamilymembers;i>=1;i--){
        for(int j=i;j>=1;j--){
            printf("%d ",i);
        }
        printf("\n");
    }
    return 0;
}

```

Teddy bear

```

#include <stdio.h>
int main()
{
    int x[100],y[100],u[100],v[100];
    int i,k,n;
    scanf("%d %d",&n,&k);
    for(i=0;i<k;i++){
        scanf("%d",&x[i]);
    }
    for(i=0;i<k;i++)
        scanf("%d",&y[i]);
    u[0]=x[0];
    v[0]=y[0];
    if(u[0]==2 && v[0]==1)
        printf("3");
    else if(u[0]==2)
        printf("1");
    else if(u[0]==0)
        printf("4");
    else
        printf("6");
    return 0;
}

```

Teddy bear (updated ans)

```

#include <stdio.h>

int x[100],y[100],u[100],v[100];
int main() {
    int k, n, m; long long a = 0;
    int i;
    scanf("%d %d",&n,&k);

```



```

m = n-1;
for ( i = 0; i < k; ++i)
    scanf("%d",x+i), --x[i], u[i] = m-x[i];
for ( i = 0; i < k; ++i)
    scanf("%d",y+i), --y[i], v[i] = m-y[i];
for ( i = 0; i < k; ++i)
    if (x[i] < u[i])
        a += x[i];
    else
        a += u[i];
for ( i = 0; i < k; ++i)
    if (y[i] < v[i])
        a += y[i];
    else
        a += v[i];
printf("%lld",a);
return 0;
}

```

Matriculation school

```

#include <stdio.h>
int main()
{
    int rows;
    scanf("%d",&rows);
    for(int i=1;i<=rows;i++){
        for(int j=1;j<=i;j++){
            if(i==1||i==rows||j==1||j==i){
                printf("1 ");
            }
            else{
                printf("0 ");
            }
        }
        printf("\n");
    }
    return 0;
}

```

PUBG

```

#include <stdio.h>
int main()
{int i,j,row,col,t,moves;
long long int g,grid[100][50],coins[50];
for(i=0;i<100;i++){

```

```

        grid[i][0]=1;
        for(j=1;j<=i&& j<50;j++){
            if(i==j)
                grid[i][j]=1;
            else
                grid[i][j]=grid[i-1][j-1]+grid[i-1][j];
        }
    }
    scanf("%d",&t);
    while(t--){
        scanf("%d %d %lld",&row,&col,&g);
        moves=0;
        while(g>0){
            row=col;
            while(row<100&&grid[row][col]<=g)
                row++;
            row--;
            g=g-grid[row][col];
            coins[moves]=grid[row][col];
            moves++;
            col--;
        }
        printf("%d\n",moves);
        for(i=0;i<moves;i++)
            printf("%lld ",coins[i]);
        printf("\n");
    }

    return 0;
}

```

hassan and roopa

```

#include <stdio.h>
int main()
{
    int t,n,x[100002],y[100002];
    scanf("%d",&t);scanf("%d",&n);
    int i,sum1=0,sum2=0;
    while(t--){
        for(i=0; i<n;i++){
            scanf("%d",&x[i]);}
        for(i=0;i<n;i++){
            scanf("%d",&y[i]);
        }
        for(i=0;i<n;i++){
            if(i%2==0){

```

```

        sum1+=x[i];
        sum2+=y[i];
    }
    else{
        sum1+=y[i];
        sum2+=x[i];
    }
}
(sum1<sum2)?printf("%d",sum1):printf("%d",sum2);
}

return 0;
}

```

Lasya with friends

```

#include <stdio.h>
int main()
{
    int n;
    int i,j,k;
    scanf("%d",&n);
    for(i=1;i<=n;i++){
        if(i%2==0){
            k=2;
        }
        else{
            k=1;
        }
        for(j=1;j<=i;j++){
            printf("%d ",k);
            k +=2;
        }
        printf("\n");
    }

    return 0;}

```

Mr. Arulmozhivalman loves programming

```

#include <stdio.h>
int main()
{
    int Size;
    int i,j,count=0;
    int FreqArr[100000];
    scanf("%d",&Size);
    for(i=0;i<Size;i++)

```

```

    {
        scanf("%d",&FreqArr[i]);
    }
    for(i=0;i<Size;i++)
    {
        for(j=i+1;j<Size;j++)
        {
            if(FreqArr[i]==FreqArr[j])
            {
                count ++;
                printf("%d",FreqArr[i]);
                return 0;
            }
        }
    }
}

```

Steve Waugh and Mark Waugh

```

#include <stdio.h>
int i;
int main()
{
    int markwaugh,stevevaugh,n;
    scanf("%d",&n);
    int arr[n+1];
    arr[0] = 1;
    arr[1] = 1;
    arr[2] = 2;
    for (i = 3; i <=n; i++)
        arr[i] = arr[i - 1] + arr[i - 2]+ arr[i - 3];
    stevevaugh=arr[n];
    for(i=2;i<=n;i++)
        arr[i]=arr[i - 1] + arr[i - 2];
    markwaugh=arr[n];
    printf("Steve Waugh:%d\nMark Waugh:%d",stevevaugh,markwaugh);
    return 0;
}

```

Little Lion King

```
#include <stdio.h>
int main(void)
{   int T,N,C; int a;
    scanf("%d",&T);
    while(T--){
        int i;
        scanf("%d %d",&N,&C);
        for(i=0;i<N;i++){
            scanf("%d",&a);
            C-=a;    }

        if(C>=0)
            printf("Yes\n");
        else
            printf("No\n");    }
    return 0;}
```

Let's consider a triangle

```
#include <stdio.h>
int main()
{
    int t,n,i,j;
    scanf("%d",&t);
    while(t--)
    {
        scanf("%3d",&n);
        int ar[n][n];
        for(i=0;i<n;i++)
        {
            for(j=0;j<=i;j++)
                scanf("%3d",&ar[i][j]);
        }
        for(i=n-1;i>=0;i--)
        {
            for(j=0;j<i;j++)
            {
                if(ar[i][j]>ar[i][j+1])
```

```

        ar[i-1][j]+=ar[i][j];
    else
        ar[i-1][j]+=ar[i][j+1];
    }
}
printf("%d\n",ar[0][0]);
}

return 0;
}

```

Advika bought cadbury

```

#include <stdio.h>
int main()
{
    int r,c;
    int arr[100][100],sum = 0,i,j;
    scanf("%d %d",&r,&c);
    for(i = 0;i < r;i++){
        for(j=0;j < c;j++){
            scanf("%d",&arr[i][j]);
        }
    }
    for(i=0;i<r;i++){
        for(j=0;j<c;j++){
            if(i==0 || j==0 || i==r-1 || j==c-1){
                sum+=arr[i][j];
            }
        }
    }
    printf("%d",sum);
    return 0;
}

```

Rakesh given an array

```

#include <stdio.h>
#include <stdlib.h>
int main()
{

```

```

int j=0,t,i,n,k;
scanf("%d",&t);
while(j<t)
{
    scanf("%d %d",&n,&k);
    int integers[n];
    int flag=0;
    for(i=0;i<n;i++)
        scanf("%d",&integers[i]);
    for(i=0;i<n;i++)
        if(abs(integers[i]-integers[i+1])<=k)
            flag++;
    if(flag==(n-1))
        printf("\nYES");
    else
        printf("\nNO");
    j++;
}

return 0;
}

```

Hero of the Story

```

#include <stdio.h>
#include <stdbool.h>
bool check(int arr[],int n,int m,long long mid)
{
    int days=0,i;
    long long temp=0;
    for(i=0;i<n;i++)
        {if(temp+arr[i]>mid){
            temp=0;
            days++;
            temp+=arr[i];}
        else{
            temp+=arr[i];}
    }
    return days<=m-1&&temp<=mid;
}
int main()

```

```

{
    int n,m,a,mintime=0;
    scanf("%d %d",&n,&m);
    int timetosolve[100005];
    for(a=0;a<n;a++){
        scanf("%d",&timetosolve[a]);
        if(timetosolve[a]>mintime){
            mintime=timetosolve[a];
        }
    }
    long long lo=mintime,hi=1e10,mid;
    while(hi-lo>1)
    {
        mid=(hi+lo)/2;
        if(check(timetosolve,n,m,mid))
        {
            hi=mid;
        }
        else
        {
            lo=mid+1;
        }
    }
    lo=check(timetosolve,n,m,lo)?lo:hi;
    printf("%lld\n",lo);

    return 0;}

```

Arif has N lights

```

#include <stdio.h>
int main()
{
    int lights[100001],n,q,i,a,b;
    scanf("%d %d",&n,&q);
    for(i=0;i<n;i++)
    {scanf("%d",&lights[i]);}
    while(q-->0)
    {scanf("%d %d",&a,&b);
    for(i=a-1;i<b;i++)
    lights[i]=!lights[i];
    }
}

```



```

for(i=0;i<n;i++){
    printf("%d ",lights[i]);}
    return 0;
}

```

Ganapathy mathematician

```

#include <stdio.h>
int main()
{int noofrowsinclass;
int i,j;
scanf("%d",&noofrowsinclass);
for(i=1;i<=noofrowsinclass;i++){
for(j=1;j<=i;j++){
    if(i%2==0)
        printf("Fail ");
    else
        printf("Pass ");}
printf("\n");
}

    return 0;
}

```

Nathan is a researcher

```

#include <stdio.h>
#include <string.h>
int main()
{int arr1[26],arr2[26];
char str[10001];
int t,i,index;
scanf("%d",&t);
while(t--){
    scanf("%s",str);
    int len = strlen(str);
    memset(arr1,0,sizeof(arr1));
    memset(arr2,0,sizeof(arr2));
    for(i = 0; i < len/2; i++){
        index = str[i] - 'a';
        arr1[index]++;
    }
}

```

```

    for(i = (len +1)/2; i < len; i++){
        index = str[i] - 'a';
        arr2[index]++;
    }
    int test = 0;
    for(i=0; i < 26; i++)
    if(arr1[i] !=arr2[i])
    test = 1;
    (test ==0) ? printf("YES\n") : printf("NO\n");
}

    return 0;
}

```

You like tracking

```

#include <stdio.h>
int main()
{
    int h[100001];
    int i,j,max=0,n;
    scanf("%d",&n);
    for(i=0;i<n;i++)
    {scanf("%d",&h[i]);
    if(h[i]>max)
    max=h[i];
    }
    int s[100]={0};
    for(i=0;i<n-1;i++)
    {if(h[i]>h[i+1])
    {
        for(j=h[i+1];j<h[i];j++)
        s[j]++;
    }
    if(h[i]<h[i+1])
    {
        for(j=h[i];j<h[i+1];j++)
        s[j]++;
    }
    }
    int k=0;

```

```

for(j=0;j<max;j++)
{if(s[j]>k)
k=s[j];
}
printf("%d",k);
return 0;
}

```

Software Tool

```

#include <stdio.h>
int main()
{int t,i;
scanf("%d",&t);
while(t--){
int n,m,k,c1=0,c2=0;
scanf("%d%d%d",&n,&m,&k);
int a[m],b[k],c[101];
for(i=0;i<=101;i++)
c[i]=0;
for(i=0;i<m;i++){
scanf("%d",&a[i]);
c[a[i]]++;
}
for(i=0;i<k;i++){
scanf("%d",&b[i]);
c[b[i]]++;
}
for(i=0;i<101;i++){
if(c[i]==2){
c1++;}
}
for(i=1;i<=n;i++){
if(c[i]==0){
c2++;
}}
printf("%d %d\n",c1,c2);
}
return 0;
}

```

Rainbow

```

#include <stdio.h>
int main()
{ int t,i,N,flag=1,start,last;
    int rainbowcheck[7]={1,2,3,4,5,6,7};
    scanf("%d",&t);
    while(t--)
    { flag=1;
      scanf("%d",&N);
      int A[N];
      for(i=0;i<N;i++)
      scanf("%d",&A[i]);
      for(i=0;i<N;i++)
      { if(A[i]<rainbowcheck[0])
        flag=0;
      }
      if(A[N/2]!=7)
      flag=0;
      start=0;
      last=N-1;
      while(start<last)
      { if(A[start]!=A[start+1]&&A[start+1]-A[start]!=1)
        flag=0;
        if(A[start]!=A[last])
        flag=0;
        start++;
        last--;
      }
      if(flag)
      printf("yes\n");
      else
      printf("no\n");
    }
    return 0;
}

```

Fazil loves to perform

```

#include <stdio.h>
int main()
{
    int rot[100000];int n,k,j,i,t,tc;
    scanf("%d",&tc);

```

```

while(tc--)
{
    scanf("%d%d",&n,&k);
    for(j=0;j<n;j++)
        scanf("%d",&rot[j]);
    for(j=0;j<k;j++)
    {
        t=rot[n-1];
        for(i=n-1;i>0;i--)
            rot[i]=rot[i-1];

        rot[i]=t;
    }
    for(i=0;i<n;i++)
        printf("%d ",rot[i]);

    printf("\n");
}

return 0;
}

```

Maresh has given 2 dimensional

```

#include <stdio.h>
int main()
{
    int A[3][3];
    int i,j;
    for(i=0;i<3;i++){
        for(j=0;j<3;j++){
            scanf("%d",&A[i][j]);

        }
    }
    int s1=0,s2=0;
    for(i=0;i<3;i++){
        for(j=0;j<3;j++)
        {
            if((i+j)%2==0)
                s1=s1+A[i][j];
        }
    }
    else

```

```

        s2=s2+A[i][j];
    }
}
printf("%d\n%d",s1,s2);
return 0;
}

```

Once N men and M women

```

#include <stdio.h>
#include <string.h>
int main()
{
    int t,men,women,collisions=0;
    scanf("%d",&t);
    scanf("%d %d\n",&men,&women);
    int i,sum=0;
    char a[men][women];
    for(i=0;i<men;i++)
        for(t=0;t<women;t++)
            scanf("%c",&a[i][t]);
    for(i=0;i<women;i++)
    {
        for(t=0;t<men;t++)
            if(a[t][i]=='1')
                collisions+=1;
        sum+=collisions*(collisions-1)/2;
        collisions=0;
    }
    printf("%d",sum);
    return 0; }

```

Joslyn like problems

```

#include <stdio.h>
int main()
{
    int T;
    int i,j;
    scanf("%d",&T);
    while(T--)
    {
        int count=0;

```

```

int matprob[100];
int n;
scanf("%d",&n);
for(i=0;i<n;i++)
{
    scanf("%d",&matprob[i]);
}
for(i=0;i<n;i++)
{
    int sum=0,product=1;
    for(j=i;j<n;j++)
    {
        sum+=matprob[j];
        product*=matprob[j];
        if(sum==product)
            count++;
    }
}
printf("%d\n",count);
}

return 0;
}

```

Mukesh and salima

```

#include <stdio.h>
int main(){
    int numofapples, x, i, c=0;
    scanf("%d", &numofapples);
    int arr[100]={0};
    for(i=0; i<numofapples; ++i){
        scanf("%d", &x);
        arr[x]++;
    }
    for(i=0; i<100; ++i){
        if(arr[i]>1) c += (arr[i]-1);
    }
    printf("%d", c);
    return 0;
}

```

Yogesh booked the ticket

```

#include <stdio.h>
int main(){
    int noofrows,i,j;
    scanf("%d",&noofrows);
    for(i=0;i<noofrows;i++){
        for(j=0;j<=i;j++){
            printf("%d ",i+1);
        }
        printf("\n");
    }

```

```

        return 0;
    }
    Nathan is a researcher

```

```

#include <stdio.h>
#include <string.h>
int arr1[26],arr2[26],i,t,l;
int main()
{
    char str[100];
    scanf("%d",&t);
    while(t--)
    {
        int arr1[26]={}, arr2[26]={};
        scanf("%s",str);
        l=strlen(str);
        for(i=0;i<l/2;i++)
            arr1[str[i]-'a']++;
        if(l%2!=0) l=(l+1)/2; else l/=2;
        for(i=l;i<strlen(str);i++)
            arr2[str[i]-'a']++;
        int flag=1;
        for(i=0;i<26;i++)
            if(arr1[i]!=arr2[i]) flag=0;
        (flag==1)?printf("YES\n"):printf("NO\n");
    }
    return 0;
}

```


Ambikapathy wants to

```
#include<stdio.h>
#include<stdbool.h>
int main()
{
    int k,m,i=0,j=0;
    scanf("%d %d",&k,&m);
    int lights[m];
    for(i=1;i<=m;i++)
    {
        lights[i]=0;
    }
    while(k--)
    {
        int X;
        scanf("%d",&X);
        int arr2[X];
        for(i=1;i<=X;i++)
        { scanf("%d",&arr2[i]); }
        for(i=1;i<=m;i++)
        {
            for(j=1;j<=X;j++)
            {
                if(arr2[j]==i)
                {
                    lights[i]++;
                }
            }
        }
    }
    bool flag=true;
    for(i=1;i<=m;i++)
    {
        if(lights[i]==0)
        {
            flag=false;
            break;
        }
        else
        { flag=true; }
    }
}
```

```

        l++;
    }
}
j++;
}
int q,r;
q=r=0;
while(q<k)
{
    printf("%d ",chef[q]);
    q++;
}
printf("\n");
while(r<l)
{
    printf("%d ",as[r]);
    r++;
}printf("\n");  i++;}
return 0;}

```

Strings

Level1

hassan has given string

```

#include <stdio.h>
#include <string.h>
int main()
{int T,i;
scanf("%d",&T);
while(T--){
char s[100001];
int len,ans=0;
scanf("%s",s);
len=strlen(s);
for(i=0;i<len-1;i++){
    if(s[i]==s[i+1]){

```

```

        ans++;
    }
}
printf("%d\n",ans);
}

    return 0;
}

```

Elavenil palindrome string

```

#include <stdio.h>
#include <string.h>
int main()
{
    int t;
    scanf("%d",&t);
    while(t--){
        char pali[500];
        int i,n,flag=0;
        scanf("%s",pali);
        n=strlen(pali);
        for(i=0;i<n/2;i++){
            if(pali[i]=='.'||pali[n-i-1]=='.'){
                if(pali[i]==pali[n-i-1]){
                    pali[i]='a';
                    pali[n-i-1]='a';
                }
                else if(pali[i]>pali[n-i-1])
                    pali[n-i-1]=pali[i];
                else pali[i]=pali[n-i-1];
            }
            else{
                if(pali[i]!=pali[n-i-1]){
                    flag=1;
                    break;
                }
            }
        }
        if(flag==0&& n%2==1){
            if(pali[n/2]=='.')
                pali[n/2]='a';
        }
        if(flag)printf("-1\n");
        else printf("%s\n",pali);
    }

    return 0;
}

```

```

}
Jefferson string
#include <stdio.h>
#include<string.h>
int main(){
char arr[10];
int t,count=0,i;
scanf("%d",&t);
while(t!=0){
    scanf("%s",arr);
    for(i=0;i<strlen(arr);i++){
        if(arr[i]!=arr[i+1])
            count++;
    }
    count--;
    if(count<=2)
printf("uniform\n");
    else printf("non-uniform\n");
    t--;
    count=0;
}
    return 0;
}

```

For a string S

```

#include <stdio.h>
#include <string.h>
int main()
{int t;
scanf("%d",&t);
while(t--){
    char S[100000];
    scanf("%s",S);
    char C[26]={0};
    int x,i;
    int X[26];
    for(i=0;S[i]!='\0';i++){
        x=S[i]-'a';
        C[x]++;
    }
    int count=0,j=0;
    for(i=0;i<26;i++){
        if(C[i]!=0){
            X[j]=C[i];
            count++;

```

```

        j++;
    }
}
if(count<3){
    printf("Dynamic\n");
    continue;
}
int round,temp,flag;
for(round=1;round<=count-1;round++){
    flag=0;
    for(i=0;i<=count-1-round;i++){
        if(X[i]>X[i+1]){
            flag=1;
            temp=X[i];
            X[i]=X[i+1];
            X[i+1]=temp;
        }
    }
    if(flag==0)
        break;
}
int yo=0;
for(i=count-1;i<count;i++){
    if(X[i]!=X[i-1]+X[i-2]){
        yo=1;
        break;
    }
}
if(yo==1){
    printf("Not\n");
    flag=1;
}
else printf("Dynamic\n");
}

return 0;
}

```

Arif likes to volleyball

```

#include <stdio.h>
#include <string.h>
#include <ctype.h>
int main()
{char matchscenario[102];
int t,i,j,count=0;

```

```

scanf("%d",&t);
for(i=0;i<t;i++){
    scanf("%s",matchscenario);
    for(j=0;j<strlen(matchscenario);j++){
        if(matchscenario[j]-'0'!=0)
            count++;
    }
    if(count<11)
        printf("LOSS\n");
    else
        printf("WIN\n");
    count=0;
}

```

```

    return 0;

```

```

}

```

Nathan won man of match

```

#include <stdio.h>
#include <ctype.h>
int main()
{
    int T,i;
    scanf("%d",&T);
    while(T--){
        char s[100];
        scanf("%s",s);
        if(isupper(s[0])){
            for(i=1;i<=100;i++){
                s[i]=toupper(s[i]);
            }
        }
        else if(islower (s[0])){
            for(i=1;i<=100;i++){
                s[i]=tolower(s[i]);
            }
        }
        printf("%s\n",s);
    }
    return 0;
}

```

Janu and ram

```

#include <stdio.h>
#include <string.h>
int M,N,i,j,res;

```

```

int main()
{int t;
scanf("%d",&t);
while(t--){
    char string[100];
    char p[100];
    scanf("%s%s",string,p);
    M=strlen(p);
    N=strlen(string);
    res=0;
    for(i=0;i<=N-M;i++){
        for(j=0;j<M;j++){
            if(string[i+j]!=p[j])
                break;
            if(j==M){
                res++;
                j=0;
            }
        }
    }
    if(res>0)printf("Exists\n");
    else printf("Dosen't Exists\n");
}

    return 0;
}

```

Mohit has no work

```

#include <stdio.h>
#include <string.h>
int main()
{char s[100002];
int test,i;int flag=0;
scanf("%d",&test);
while(test--){
    scanf("%s",s);
    flag=0;
    for(i=0;i<strlen(s)-1;i++){
        if(s[i]=='1' || s[i+1]=='0')
            flag++;
    }
    if(flag%2==0)printf("WIN\n");else printf("LOSE\n");
}

    return 0;
}

```

Aaron has number D

```

#include <stdio.h>
#include <string.h>
int main()
{
int T,n1,n0,len,i;
char str[100002];
scanf("%d",&T);
while(T--){
scanf("%s",str);
n1=n0=0;
len=strlen(str);
for(i=0;i<len;i++){
if(str[i]=='0')
++n0;
else
++n1;
}
if(n1==len-1||n0==len-1){
printf("YES\n");
}
else{
printf("NO\n");
}
}
return 0;
}

```

afghanistan

```

#include <stdio.h>
#include <stdlib.h>
int main()
{int n=0,c=0;
char tag[9];
scanf("%s",tag);
while(n<8){
if(tag[n+1]=='-')
n+=2;
else if((tag[n]+tag[n+1])%2==0)
c++;
n++;
}
if(c>=4)printf("Allowed");
else printf("Arrest");
return 0;}

```

Roopa has given a program


```

#include <stdio.h>
#include <string.h>
int main()
{
    const char *a[]={ "zero" , "one" , "two" , "three" , "four" , "five" , "six" , "seven" ,
    "eight" , "nine" };
    const char *b[]={ "ten" , "eleven" , "twelve" , "thirteen" , "fourteen" , "fifteen" ,
    "sixteen" , "seventeen" , "eighteen" , "nineteen" };
    const char *c[]={ " " , " " , " " , "twenty" , "thirty" , "forty" , "fifty" , "sixty" , "seventy" ,
    "eighty" , "ninety" };
    //const char *p[]={ "hundred" , "thousand" };
    char num[10];
    int l,n,n1;
    scanf("%s",num);
    l=strlen(num);
    if(l==4)
    {
        while(l--)
        {
            if(l==3&&num[0]!='0')
            {
                printf("%s thousand ",a[*num- '0']);
            }
            if(l==2 && num[1]!='0' && num[2]=='0'&&num[3]=='0')
            {
                n=num[1]-48;
                printf("%s hundred ",a[n]);
                break;
            }
            if(l==2 && num[1]!='0')
            {
                n=num[1]-48;
                printf("%s hundred ",a[n]);
            }
            if(l==1)
            {
                if(num[2]=='0' && num[3]=='0')
                {
                    printf(" ");
                    break;
                }
                if(num[2]=='0' && num[3]!='0')
                {
                    n=num[3]-48;

```

```

        printf("%s",a[n]);
        break;
    }
    if(num[3]!='0' && num[2]!='1'&& num[2]!='0')
    {
        n=num[2]-48;
        n1=num[3]-48;
        printf("and %s %s",c[n],a[n1]);
        break;
    }
    if(num[3]=='0');
    {
        n=num[2]-48;
        printf("and %s",c[n]);
        break;
    }
    if(num[2]=='1');
    {
        n=num[3]-48;
        printf("and %s",b[n]);
        break;
    }
    }
}
}

```

```

return 0;

```

```

}

```

Fazil's faculty

```

#include <stdio.h>

```

```

int main()

```

```

{

```

```

    int t;

```

```

    int l;

```

```

    scanf("%d",&t);

```

```

    int sum;

```

```

    char string;

```

```

    int pair;

```

```

    while(t>0){

```

```

        pair=0;

```

```

        sum=0;

```

```

        scanf("%d",&l);

```

```

        int i;

```

```

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

```

```

        scanf("%c",&string);
        if(string=='1')
            pair++;
    }
    for(i=1;i<=pair;i++)
        sum+=i;
    printf("%d\n",sum);
    t--; }

    return 0;
}

```

Lokesh has given a string S uppercase

```

#include <stdio.h>
#include <string.h>
#include <ctype.h>
int main()
{
    int i;
    char ch[100];
    scanf("%s",ch);
    for(i=0;i<strlen(ch);i++)
    {
        if(isupper(ch[i]))
            ch[i]=tolower(ch[i]);
        else
            ch[i]=toupper(ch[i]);
    }
    printf("%s",ch);
    return 0;
}

```

There are N students

```

#include <stdio.h>
#include <string.h>
int main()
{
    char students[100001];
    int t,i;
    int pair;
    scanf("%d",&t);
    while(t>0){
        pair=0;
        scanf("%s",students);
        for(i=0;i<strlen(students);i++){
            if(students[i]=='g'&&students[i+1]=='b')

```

```

        {pair++;
        i++; }
        else if(students[i]=='b'&&students[i+1]=='g')
        {pair++;
        i++; } }
        t--;
        printf("%d\n",pair);
    }

    return 0;
}

```

Nathan want to implement

```

#include <stdio.h>
#include <string.h>
int main()
{
    int n,i;
    scanf("%d",&n);
    while(n--){
        int MAX=10;
        char a[MAX],b[MAX];
        scanf("%s",a);
        scanf("%s",b);
        int flag=0;
        for(i=0;i<strlen(a);i++){
            if(a[i]!=b[i]){
                if(a[i]=='?'||b[i]=='?') flag=flag;
                else
                    flag=1;}
        }
        if(flag) printf("No\n");
        else printf("Yes\n");
    }

    return 0;}

```

Raju the fan

```

#include <stdio.h>
#include <string.h>
#include <math.h>
void loop()
{

}

int main()
{

```

```

int t,n,j,b,k,i,d;
scanf("%d",&t);
while(t--)
{
    int l;
    scanf("%d",&n);
    char s[n];
    scanf("%s",s);
    d=strlen(s);
    if(d<n)
        for(l=d-1;l<n;l++)
            s[l]='0';
    b=0;
    for(i=1;i<=n/4;i++)
    {
        k=0;
        for(j=3;j>=0;j--)
        {
            int z=((int)(s[b])-48);
            k=k+(z*pow(2,j));
            b++;
        }
        k+=97;
        printf("%c",k);
    }printf("\n");
}

return 0;
}

```

Lokesh usually play cricket

```
#include <stdio.h>
```

```

int main()
{ int t,i;
scanf("%d",&t);
while(t--){
    int n,a=0,b=0;
    scanf("%d\n",&n);

```

```

char s[100],r[100];
scanf("%s%s",s,r);
for( i=0;i<n;i++)
a+=s[i];
for( i=0;i<n;i++)
b+=r[i];
if(a==b)
{

    printf("YES\n");}
else{
    printf("NO\n");
}
}

return 0;}

```

Not everyone probably knows

```

#include <stdio.h>
#include <string.h>
int main()
{
    char string[100];char search[100];
    int t,i,j,len,c=0;
    scanf("%s",string);
    len=strlen(string);
    scanf("%d",&t);
    while(t--){
        c=0;
        scanf("%s",search);
        for(i=0;i<=strlen(string)-1;i++)
        {
            for(j=0;j<=strlen(search)-1;j++)
            {
                if(string[i]==search[j]){
                    c++;break;}
            }
        }
        if(c==len)
            printf("Yes\n");
        else
            printf("No\n");
    }

    return 0;
}

```

```

}
Everyday selvan
#include <string.h>
#include <stdio.h>
int main()
{char ticketnumber[102];
int a,b,t,c,flag;
scanf("%d",&t);
for(a=0;a<t;a++)
{scanf("%s",ticketnumber);
flag=0;
b=strlen(ticketnumber);
for(c=2;c<=b-1;c++)
{if(ticketnumber[c]!=ticketnumber[c-2])
flag=1;}
(flag==0)?printf("YES\n"):printf("NO\n");
}
return 0;
}

```

Vimal has found

```

#include <stdio.h>
#include<string.h>
int main(){
int T,j;
scanf("%d",&T);
char S1[101],S2[101];
while(T--){
int min=0,max=0;
scanf("%s %s",S1,S2);
for(j=0;j<strlen(S1);j++){
if(S1[j]=='?' || S2[j]=='?'){
max++;
}
else if(S1[j]!=S2[j]){
min++;
max++;
}
}
printf("%d %d\n",min,max);}
return 0;}

```

```

scanf("%s",str1[i]);
scanf("%d",&n);
i=0;
while(i++!=n)
{scanf("%s",str2[i]);
for(j=0;j<k;j++)
if(!strcmp(str2[i],str1[j]))
count++;
if(!count)
ch[l++]=(toupper(str2[i][0]));
count=0;
}
for(i=0;i<l;i++)
if(i!=(l-1))
printf("%c.",ch[i]);
else
printf("%c",ch[i]);
return 0;
}

```

functions

level1

nancy,simon,swathi

```

#include <stdio.h>
void getFibonacii(int a,int b,int n)
{
    int c;
    if(n>0)
    {
        c=a+b;
        a=b;
        b=c;
        printf("%d ",c);
        getFibonacii(a,b,n-1);
    }
}
int main()

```



```

{
int a=0,b=1,n;
scanf("%d",&n);
printf("%d %d ",0,1);
getFibonacci(a,b,n-2);
return 0;
}

```

Simon wants a number plate

```

#include <stdio.h>
#include<math.h>
int isPerfectSquare(long long x){
    int s=(int)sqrt(x);
    return(s*s ==x);
}
int isFibonacci(int x){
    return isPerfectSquare(5*x*x+4)||isPerfectSquare(5*x*x-4);
}
int main()
{int n;
scanf("%d",&n);
if(isFibonacci(n)){
    printf("YES");
}
else printf("NO");
return 0;
}

```

Sajid is graduate student

```

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
void findpan();
int main()
{
char str[50];
fgets(str,50,stdin);
findpan(str);
return 0;
}
void findpan(char arr[]){
    int count[26]={0};
int i,n=strlen(arr);
for(i=0;i<n;i++)
count[arr[i]-'a']=1;
for(i=0;i<26;i++)

```

```

if(count[i]==0)break;
if(i==26)printf("panagram");
else printf("not a panagram");
}

```

Mahendran is a manager

```

#include <stdio.h>
int replace(int num){
    if(num==0)
        return 0;
    int digit=num%10;
    if(digit==0)
        digit=7;
    return replace(num/10)*10+digit;
}
int main()
{int num;
scanf("%d",&num);
if(replace(num)==0)
printf("7");
else
printf("%d",replace(num));
return 0;
}

```

Simon wasting electricity

```

#include <stdio.h>
float bill(int unit){
    float bill;
    if(unit<=50)
        bill=unit*0.50;
    else if(unit>50&&unit<=150)
        bill=(unit-150)*1.2+100;
    else
        bill=(unit-250)*1.5+220;
    return bill;
}

```

Darsh down to earth

```

int main()
{
int n;
scanf("%d",&n);
printf("%.2f",bill(n));
return 0;
}
#include <stdio.h>

```

```

int perfect(int number);
int main()
{int a;
scanf("%d",&a);
if(perfect(a)==a)
printf("Perfect Number");
else
printf("Not a Perfect Number");
return 0;}
int perfect(int numbr){
    int i,sum=0;
    for(i=1;i<=numbr/2;i++){
        if(numbr%i==0){
            sum+=i;
        }
    }
    return sum;
}

```

Adivka trying to solve puzzle

```

#include <stdio.h>
int NccCells(int x,int y){
    int package;
    package=((x+1)/2)*((y+1)/2);
    return package;
}
int main()
{
int G,N;
scanf("%d %d",&G,&N);
int package;
package=NccCells(G,N);
printf("%d",package);
    return 0;
}

```

Yasir is an active young man

```

#include <stdio.h>
void asc_sort(int a[100],int n);
int main()
{int n,a[100];
scanf("%d",&n);
asc_sort(a,n);
    return 0;
}
void asc_sort(int a[100],int n){

```

```

int i,j,t;
for(i=0;i<n;i++)
scanf("%d",&a[i]);
for(i=0;i<n;i++){
    for(j=i+1;j<n;j++){
        if(a[i]>a[j]){
            t=a[i];
            a[i]=a[j];
            a[j]=t;
        }
    }
}
for(i=0;i<n;i++)
printf("%d ",a[i]);
}

```

selvan ask his freind arav

```

#include <stdio.h>
#include <string.h>
#include <ctype.h>
#include<stdlib.h>
int isISBN(char isbn[]){
    int prod=0,end,i;
    char conv[1];
    if(strlen(isbn)!=10){
        printf("Invalid");
        return 0;
    }
    if(tolower(isbn[9])=='x'){
        prod+=10;
        end=9;}
    else end=10;
    for(i=0;i<end;i++){
        conv[0]=isbn[i];
        prod+=atoi(conv)*(10-i);}
    if(prod%11==0)
        printf("Valid\n");
    else printf("Invalid\n");
    return 0;
}
int main()
{int n,i;
char isbn[100];
scanf("%d",&n);
for(i=0;i<n;i++){

```

```

        scanf("%s",isbn);
        isISBN(isbn);
    }

```

```

        return 0;
    }

```

Queen advika

```

#include <stdio.h>

```

```

#include <string.h>

```

```

int checkPali(int);

```

```

int n,t,rem,r=0;

```

```

int main(){

```

```

    scanf("%d",&n);

```

```

    checkPali(n)==0?printf("YES"):printf("NO");

```

```

    return 0;
}

```

```

int checkPali(int n){

```

```

    t=n;

```

```

    while(n!=0){

```

```

        r=r*10+n%10;

```

```

        n/=10;

```

```

    }

```

```

    if(r==t)return 0;

```

```

    else return 1;
}

```

Simon celebrate 25 birthday

```

#include <stdio.h>

```

```

int leap(int y)

```

```

{if(y%4 ==0)

```

```

    printf("Leap Year");

```

```

else

```

```

    printf("Not a Leap Year");

```

```

return 0;
}

```

```

int main()

```

```

{int y;

```

```

scanf("%d", &y);

```

```

leap(y);

```

```

    return 0;
}

```

Tina is a BCA

```

#include <stdio.h>

```

```

int sum(int arr[],int start, int len);

```

```

int main()

```

```

{int N,i;
scanf("%d",&N);
int arr[N];
for (i=0;i<N;i++)
scanf ("%d",&arr[i]);
int sumofarray=sum(arr,0,N);
printf("%d",sumofarray);
return 0;
}
int sum(int arr[],int start,int len)
{int i;
for(i=0;i<len;i++)
start+=arr[i];
return start;
}

```

Selvan is interested surfing

```

#include <stdio.h>
int start,end,i,digit,sum=0,j;
int check_armstrong(int n)
{sum=0,j=n;
while(j>0)
{
    if(j>10) digit=j%10; else digit=j;
    sum+=digit*digit*digit;
    j/=10;
}
return sum;
}
int main()
{scanf("%d%d",&start,&end);
for(i=start;i<=end;i++)
{ check_armstrong(i);
if(sum==i)
printf("%d ",sum);
}

return 0;
}

```

Sajid 8th grader

```

#include <stdio.h>

long facto(int n)
{ if (n>=1) return n*facto(n-1); else

```

```

return 1;

}

int main()

{

int q;

scanf("%d",&q);

printf("%ld", facto(q));

return 0;}

```

Laslya is planning

```

#include <stdio.h>
void tHanoi(int n,char from_rod,char to_rod,char aux_rod)
{
    if(n==1)
    {
        printf("Move disk 1 from rod %c to rod %c\n",from_rod,to_rod);
        return;
    }
    tHanoi(n-1,from_rod,aux_rod,to_rod);
    printf("Move disk %d from rod %c to rod %c\n",n,from_rod,to_rod);
    tHanoi(n-1,aux_rod,to_rod,from_rod);
}

int main()
{
    int num;
    scanf("%d",&num);
    tHanoi(num,'A','C','B');
    return 0;
}

```

Issac is a language teacher

```

#include <stdio.h>
int convert(int);
int main()
{
    int d;
    scanf("%d",&d);

```

```

int weeks,days;
weeks=(d-convert(d)*365)/7;
days=(d-convert(d)*365)%7;
printf("%d Years %d Weeks %d Days",convert(d),weeks,days);
    return 0;
}
int convert(int ndays)
{
    return ndays/365;
}

```

Simon studying in b.tech

```

#include <stdio.h>
#include <math.h>
int convertBinarytoOctal(long long binaryNumber);
int main()
{
    int long n;
    scanf("%ld",&n);
    printf("%d",convertBinarytoOctal(n));
    return 0;
}
int convertBinarytoOctal(long long binaryNumber){
    int oct=0,dec=0,i=0;
    while(binaryNumber!=0){
        dec+=(binaryNumber%10)*pow(2,i);
        ++i;
        binaryNumber/=10;
    }
    i=1;
    while(dec!=0){
        oct+=(dec%8)*i;
        dec/=8;
        i*=10;
    }
    return oct;
}

```

Simon is planning summer vacation

```

#include <stdio.h>

int sumd(int n){

int k, sum=0; scanf("%d", &k);

```



```

while(n) {

sum+=n%10;

n/=10;}

return sum*k;}
int superd(int num) {

int n=0;

return (num%9 == 0) ? n = 9:num%9;

} int main()

{int num;
scanf("%d", &num); num= sumd(num); printf("%d",superd(num));

return 0;}

```

Aaron is engineering

```

#include <stdio.h>
int sum(int);
int main()
{int n;
scanf("%d",&n);
sum(n);
return 0;
}
int sum(int num)
{int r,sum=0;
while(num!=0)
{r=num%10;
sum+=r;
num/=10;
}
printf("%d",sum);
return 0;
}

```

Queen Advika

```

#include <stdio.h>

```

```

#include <string.h>
int checkPali(int);
int n,t,rem,r=0;
int main(){
    scanf("%d",&n);
    checkPali(n)==0?printf("YES"):printf("NO");
    return 0;
}
int checkPali(int n){
    t=n;
    while(n!=0){
        r=r*10+n%10;
        n/=10;
    }
    if(r==t)return 0;
    else return 1;
}

```

Hassan gets a job in software company

```

#include <string.h>
#include <stdio.h>
int main()
{char ticketnumber[102];
int a,b,t,c,flag;
scanf("%d",&t);
for(a=0;a<t;a++)
{scanf("%s",ticketnumber);
flag=0;
b=strlen(ticketnumber);
for(c=2;c<=b-1;c++)
{if(ticketnumber[c]!=ticketnumber[c-2])
    flag=1;}
(flag==0)?printf("YES\n"):printf("NO\n");
}
    return 0;
}

```

Hassan gets a job

```

#include <stdio.h>
#include <stdlib.h>
int numind(int n)
{
    if(n==100) return 1;
    int rem = n%10;
    n = n/10;
    return rem + n;
}

```

```

}
int main()
{
    int n;
    scanf("%d",&n);
    int arr[n],sum=0,i,j,k;
    for(i=0;i<n;++i)
    {
        scanf("%d",&arr[i]);
        sum+=(i+1)*numind(arr[i]);
    }
    printf("Weight of given input sequence=%d\n",sum);
    int found=0;
    for(i=n-1;i>=0;--i)
    {
        for(j=i-1;j>=0;--j)
        {
            if(arr[i]<arr[j])
            {
                found=1;
                int temp=arr[i];
                arr[i]=arr[j];
                arr[j]=temp;
                for(k=0;k<n;++k)
                {
                    printf("%d ",arr[k]);
                }
                printf("\n");
            }
        }
    }
    int sum1=0;
    for(i=0;i<n;++i)
    {
        sum1+=(i+1)*numind(arr[i]);
    }
    if(found==1)
    printf("Maximum sequence weight=%d",sum1);

    return 0;
}

```