

```

1.t=int(input())
for k in range(1,t+1):
    n=int(input())
    if n==0 or n==1:
        print("Test Case #%d: NOT-PRIME"%(k))
    elif n==5 or n==2 or n==3 or n==7 :
        print("Test Case #%d: PRIME"%(k))
    else:
        if (n % 2 == 0) or (n % 3 == 0)or(n % 5 == 0) or(n % 7 == 0):
            print("Test Case #%d: NOT-PRIME"%(k))
        else:
            print("Test Case #%d: PRIME"%(k))

```

2.

```

t=int(input())
for k in range(1,t+1):
    n=int(input())
    if n==0 or n==1:
        print("Test Case #%d: NOT-PRIME"%(k))
    elif n==5 or n==2 or n==3 or n==7 :
        print("Test Case #%d: PRIME"%(k))
    else:
        if (n % 2 == 0) or (n % 3 == 0)or(n % 5 == 0) or(n % 7 == 0):
            print("Test Case #%d: NOT-PRIME"%(k))
        else:
            print("Test Case #%d: PRIME"%(k))

```

3

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

```
int main(){
```

```

int t;

scanf("%d\n",&t);

while(t--){

    int n;

    scanf("%d",&n);

    if(n==1)

        printf(".");

    else if(n==2)

        printf(" ");

    else if(n==3)

        printf("\n");

    else

        printf("%c",n+97);

}

}

```

4.

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        int t=sc.nextInt();
        while(t!=0)
        {
            int n=sc.nextInt();
            int f1=0;
            int f2=1;
            if(n==1)
                System.out.println(f1);
            else if(n==2)
                System.out.println(f1+" "+f2);
            else
            {
                System.out.print(f1+" "+f2+" ");
                for(int i=2;i<n;i++)

```

```

        {
            int f3=f1+f2;
            System.out.print(f3+" ");
            f1=f2;
            f2=f3;
        }
        System.out.println();
    }
    t--;
}
sc.close();
}
}

```

5.

```

#include <stdio.h>

int main(){
    int c;
    scanf("%d",&c);
    if(c<10)
        printf("%d",c);
    else
        printf("%c",55+c);
}

```

6.

```

#include <stdio.h>

int main(){
    int n;
    float g;
    char c;
    scanf("%d %f %c",&n,&g,&c);
    if(c=='U')
        printf("Person is %d years old, %.1fft tall and is UNMARRIED.",n,g);
    else
        printf("Person is %d years old, %.1fft tall and is MARRIED.",n,g);
}

```

7.

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;

```

```

class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        char ch=sc.next().charAt(0);
        char i;
        int p=0;
        for(i='A',p=1;i<'Z' || p<27;i++,p++){
            if(ch==i)
                System.out.println(p);
        }
    }
}

```

8.

```

t=int(input())
for k in range(1,t+1):
    n=int(input())
    if n==0 or n==1:
        print("Test Case #%d: NOT-PRIME"%(k))
    elif n==5 or n==2 or n==3 or n==7 :
        print("Test Case #%d: PRIME"%(k))
    else:
        if (n % 2 == 0) or (n % 3 == 0) or (n % 5 == 0) or (n % 7 == 0):
            print("Test Case #%d: NOT-PRIME"%(k))
        else:
            print("Test Case #%d: PRIME"%(k))

```

9.

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        int t=sc.nextInt();
        while(t!=0)
        {
            int n=sc.nextInt();
            int sum=0;
            int rem;
            while(n!=0)
            {
                rem=n%10;
                sum=sum+rem;
                n=n/10;
            }
            System.out.print(sum+" ");
            t--;
        }
    }
}

```

```

    }
}

10
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc= new Scanner (System.in);
        int n1=sc.nextInt();
        int n2=sc.nextInt();
        int n3=sc.nextInt();
        int num;
        num=n1*100+n2*10+n3;
        System.out.println(num);
    }
}

```

```

11
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {

System.out.println("Monday\nTuesday\nWednesday\nThursday\nFriday\nSaturday\nSu
nday");
    }
}

```

```

12
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        int X=sc.nextInt();
        int Y=sc.nextInt();
        int s=X/Y;
        int r=X%Y;
        if(X<Y)
            System.out.println(0);
        System.out.println(""+s+" "+r);
    }
}

```

13

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc= new Scanner(System.in);
        int n1=sc.nextInt();
        int n2=sc.nextInt();
        int n3=sc.nextInt();
        int min=0;
        if(n1<n2 && n1<n3)
        {
            min=n1;
            System.out.println(min);
        }
        if(n2<n1 && n2<n3)
        {
            min=n2;
            System.out.println(min);
        }
        if(n3<n1 && n3<n2)
        {
            min=n3;
            System.out.println(min);
        }
    }
}
```

14

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        float X=sc.nextInt();
        float Y=sc.nextInt();
        float d=X/Y;
        System.out.printf("%.2f",d);
    }
}
```

15

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

```

class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        int t=sc.nextInt();
        while(t!=0)
        {
            int n=sc.nextInt();
            for(int i=1;i<=n;i++)
            {
                if(i==1)
                    System.out.print(1);
                else
                    System.out.print(" "+2*i);
            }
            System.out.println("\n");
            t--;
        }
    }
}

```

16

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        int X=sc.nextInt();
        int Y=sc.nextInt();
        if(X>Y)
            System.out.println("GREATER");
        else if(X==Y)
            System.out.println("EQUAL");
        else if(X<Y)
            System.out.println("LESSER");
    }
}

```

17

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();
        char c=sc.next().charAt(0);
        float m=sc.nextFloat();
    }
}

```

```

        System.out.printf(" "+n+" "+c+" %.2f",m);
    }
}

```

18

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        String s=sc.nextLine();
        if((int)s.charAt(0)>=65&&(int)s.charAt(0)<=90)
            System.out.println(s.toLowerCase());
        else if((int)s.charAt(0)>=97&&(int)s.charAt(0)<=122)
            System.out.println(s.toUpperCase());
        else
            System.out.println(s);
    }
}

```

19

```

#include <stdio.h>

int main(){
    char c;
    scanf("%c",&c);

    if(c=='a' || c=='e' || c=='i' || c=='o' || c=='u' || c=='A' || c=='E' || c=='I' || c=='O' || c=='U' || c=='Y' || c=='y')
        printf("VOWEL");
    else
        printf("CONSONANT");
}

```

20

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();
        int i=0;
        char j='\0';
        for(i=0, j='A';i<26&&j<='Z';i++,j++)
            if(n==i)

```



```

        System.out.println(j);
    }
}

```

21

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

```

int main(){
    int a,b;
    scanf("%d %d",&a,&b);
    printf("%d%d \n%d%d",b,a,a,b);
}

```

22

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        char ch=sc.next().charAt(0);
        int ascii=ch;
        System.out.print(" "+ascii+"\t"+ch);
    }
}

```

23

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        long n=sc.nextLong();
        long m=n%1000;
        System.out.print(m);
    }
}

```

24

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        String s=sc.nextLine();
    }
}

```

```

        System.out.println(s);
    }
}

25
n=int(input())
k=list(map(int,input().split(" ")))
i=0
m=[]
while(i<len(k)):
    j=i+2
    count=0
    while(j<len(k)):
        r=max(k[i:j])
        if(r==k[i]):
            j+=1
        else:
            count+=1
            n=k.index(r)-i
            m.append(n)
            break
    if(count==0):
        m.append(0)
    i+=1
g=0
while(g<len(m)):
    print(m[g],end=" ")
    g+=1

26
name=input()
i=0
j=4
count=0
while(i<len(name)):
    k=name[i:j]
    if(k=="ZERO"):
        count+=0
    else:
        if(k[0]!='Z'):
            count+=1
        if(k[1]!='E'):
            count+=1
        if(k[2]!='R'):
            count+=1
        if(k[3]!='O'):
            count+=1
    i+=4
    j+=4

```

```
print(count)
```

27

```
k=int(input())
```

```
j=0
```

```
while(j<k):
```

```
    i=0
```

```
    n=0
```

```
    l=list(map(str,input().split(" ")))
```

```
    r=l[1:]
```

```
    while(i<int(l[0])):
```

```
        if(int(r[i])==i):
```

```
            n+=1
```

```
            print(i,end=" ")
```

```
        i+=1
```

```
    if(n==0):
```

```
        print("-1",end=" ")
```

```
    j+=1
```

28

```
n=int(input())
```

```
lst =list(map(int,input().strip().split()))
```

```
res = sorted(set(lst),key=lambda ele:lst.count(ele))
```

```
for i in sorted(res):
```

```
    print(i,end=" ")
```

29

```
k=input()
```

```
l,m=map(int,input().split(" "))
```

```
if(ord(k[-(l+1)])>=97 and ord(k[-(l+1)])<=122):
```

```
    k=k.replace(k[-(l+1)], k[-(l+1)].upper())
```

```
elif(k[-(-l+1)].upper()):
```

```
    k=k.replace(k[-(l+1)],k[-(l+1)].lower())
```

```
if(ord(k[-(m+1)])>=65 and ord(k[-(m+1)])>=90):
```

```
    k=k.replace(k[-(m+1)],k[-(m+1)].upper())
```

```
elif(k[-(m+1)].upper()):
```

```
    k=k.replace(k[-(m+1)],k[-(m+1)].lower())
```

```
print(k)
```

30

```
name=input()
```

```
print(name[-3:])
```

31

```
#include <stdio.h>
#include<string.h>
int main()
{
    char l[100];
    scanf("%s",l);
    long long int i=0;
    char o[10000];
    for(i=0;i<strlen(l);i++)
    {
        if(l[i]=='z')
            strncat(o,"???",3);
        else if(l[i]=='b')
            strncat(o,"!!",2);
        else if(l[i]=='a')
            strncat(o,"@",1);
        else
            strncat(o,&l[i],1);
    }
    printf("%s",o);
    return 0;
}
```

32

```
k=int(input())
l=list(map(int,input().split(" ")))
i=0
if(len(l)%2==0):
    while(i<len(l)):
        l[i],l[i+1]=l[i+1],l[i]
        i=i+2
else:
    while(i<len(l)-1):
        l[i],l[i+1]=l[i+1],l[i]
        i=i+2
j=0
while(j<len(l)):
    print(l[j],end=" ")
    j+=1
```

33

```
k=int(input())
l=list(map(int,input().split(" ")))
r=list(reversed(l))
if(l==r):
    print("True")
```

```
else:  
    print("False")
```

```
34  
n=input();  
sum=0;  
for d in str(n):  
    sum+=int(d)  
print(sum)
```

```
35  
#include <stdio.h>
```

```
int main(){  
    int x;  
    scanf("%d",&x);  
    long long int a[x];  
    long long int i,b,f=0;  
    for(i=0;i<x;i++)  
        scanf("%lld",&a[i]);  
    scanf("%lld",&b);  
    for(i=0;i<x;i++)  
        if(a[i]==b){  
            printf("%d",i);  
            f=1;  
            break;  
        }  
    if(f==0)  
        printf("Element Not Found.");  
}
```

```
36  
#include <stdio.h>  
int main(){  
    int num;  
    scanf("%d", &num);  
    long long int a[num];  
    int i,j;  
    for(i=0;i<num;i++)  
        scanf("%lld",&a[i]);  
    int m=0;  
    for(i=0;i<num;i++)  
        if(a[i]>a[m])  
            m=i;  
    for(i=0;i<num;i++)  
        if(m!=i && a[m]<2*a[i]){  
            m=-1;  
            break;  
        }  
}
```

```
printf("%d",m);
```

```
}
```

```
37
```

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

```
int main()
```

```
{
```

```
    int n;
```

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

```
    int a[n], i;
```

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

```
        scanf("%d",&a[i]);
```

```
    int m,sum=0;
```

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

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

```
        if(a[i]%m==0)
```

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

```
    printf("%d",sum);
```

```
    return 0;
```

```
}
```

```
38
```

```
name=int(input())
```

```
i=0
```

```
while(i<name):
```

```
    st=list(map(str,input().split(" ")))
```

```
    if('in' in st):
```

```
        print(len(st)-st.count(' '))
```

```
    else:
```

```
        print(len(st))
```

```
    i+=1
```

```
39
```

```
name = input() [::-1]
```

```
print(name)
```

```
40
```

```
import java.io.BufferedReader;
```

```
import java.io.InputStreamReader;
```

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

```
class TestClass {
```

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

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

```
        int rows=sc.nextInt();
```

```
        for(int m=1;m<=rows;m++){
```

```

        for(int n=1;n<=m;n++)
            System.out.print("* ");
        System.out.println();
    }
}

41
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        int rows=sc.nextInt();
        int columns=sc.nextInt();
        for(int m=1;m<=rows;m++){
            for(int n=1;n<=columns;n++)
                System.out.print("* ");
            System.out.println();
        }
    }
}

```

```

42
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        int rows=sc.nextInt();
        int columns=sc.nextInt();
        for(int m=1;m<=rows;m++){
            for(int n=1;n<=columns;n++)
                System.out.print(m+" ");
            System.out.println();
        }
    }
}

```

```

43
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {

```

```

        Scanner sc=new Scanner(System.in);
        int rows=sc.nextInt();
        int columns=sc.nextInt();
        for(int m=1;m<=rows;m++){
            for(int n=1;n<=columns;n++){
                {
                    System.out.print(n+" ");
                }
                System.out.println();
            }
        }
    }
}

```

44

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        int rows=sc.nextInt();
        for(int m=1;m<=rows;m++)
        {
            for(int n=1;n<=rows;n++)
            {
                System.out.print("* ");
            }
            System.out.println();
        }
    }
}

```

45

```

k=int(input())
i=0
while(i<k):
    l=int(input())
    j=1
    m=0
    pro=0
    while(j<=l):
        m=j
        p=1
        while(p<=m):
            pro=pro+2
            if(pro%4!=0):
                print(pro,end=" ")
            else:

```



```

        print(-pro,end=" ")
    p+=1
    j+=1
    print()
print()
i+=1

```

46

```

k=int(input())
i=0
while(i<k):
    l=int(input())
    j=1
    while(j<=l):
        p=1
        while(p<=j):
            print(j,end=" ")
            p+=1
        print()
        j+=1
    print()
    i+=1

```

47

```

k=int(input())
i=0
while(i<k):
    l=int(input())
    j=1
    m=1
    while(j<=l):
        p=1
        while(p<=j):
            print(m*m,end=" ")
            p+=1
            m+=1
        print()
        j+=1
    print()
    i+=1

```

48

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        int t=sc.nextInt();
        while(t!=0)
        {
            int rows=sc.nextInt();
            for(int m=1;m<=rows;m++){
                for(int n=1;n<=m;n++)
                {
                    System.out.print(n+" ");
                }
                System.out.println();
            }
            System.out.println();
            t--;
        }
    }
}
```

49

```
k=int(input())
i=0
while(i<k):
    l=int(input())
    j=0
    o=1
    m=l-1
    while(j<l):
        p=0
        n=0
        while(n<m):
            print(" ",end=" ")
            n+=1
        m-=1
        while(p<o):
            print("*",end=" ")
            p+=1
        print()
        o+=2
        j+=1
    print()
```

```
i+=1
```

50

```
#include <stdio.h>

int main(){
    int n;
    scanf("%d",&n);
    int a[n][n],i,j;
    for(i=0;i<n;i++)
        for(j=0;j<n;j++)
            scanf("%d",&a[i][j]);
    int c=0;
    for(i=0;i<n;i++)
        for(j=0;j<n;j++)
        {
            if(i==j)
            {
                if(a[i][j]!=1)
                {
                    c=1;
                    printf("NOT IDENTITY");
                    break;
                }
            }
            else if(a[i][j]!=0)
            {
                c=1;
                printf("NOT IDENTITY");
                break;
            }
        }
    if(c==0)
        printf("IDENTITY");
}
```

51

```
#include <stdio.h>

int main(){
    int n,m;
    scanf("%d%d",&n, &m);
    int a[n][m],i,j;
    for(i=0;i<n;i++)
        for(j=0;j<m;j++)
```

```

        scanf("%d", &a[i][j]);
        printf("%d %d %d %d\n%d", a[0][0],a[n-1][0],a[0][m-1],a[n-1][m-1],
a[0][0]+a[n-1][0]+a[0][m-1]+a[n-1][m-1] );
    }

```

52

```

#include <stdio.h>

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

```

53

```

#include <stdio.h>

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

```

54

```

#include <stdio.h>

```

```

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

```

55

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

```

int main(){
    int t; scanf("%d", &t);
    while(t--)
    {
        int n,m; scanf("%d%d", &n, &m);
        int a[n][m], i, j, s=0;
        for(i=0;i<n;i++) for(j=0;j<m;j++) scanf("%d", &a[i][j]);
        for(i=0;i<n;i++)
        {
            for(j=0;j<m;j++)
                s=a[i][j]+s;
            printf("%d\n", s);
            s=0;
        }
        printf("\n");
    }
}

```

56

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

```

int main(){
    int n, m; scanf("%d%d",&n, &m);
    int a[n][m], b[n][m],i,j;
    for(i=0;i<n;i++) for(j=0;j<m;j++) scanf("%d", &a[i][j]);
    for(i=0;i<n;i++) for(j=0;j<m;j++) scanf("%d", &b[i][j]);
    for(i=0;i<n;i++)
    {

```

```

        for(j=0;j<m;j++)
            printf("%d ", a[i][j]+b[i][j]);
        printf("\n");
    }
}

```

57

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        int m=sc.nextInt(), n=sc.nextInt();
        int[][] a=new int[m][n];
        for(int i=0;i<m;i++)
            for(int j=0;j<n;j++)
                a[i][j]=sc.nextInt();
        int x=sc.nextInt(), b=sc.nextInt();
        for(int i=b;i<n;i++)
            System.out.print(a[x][i]+" ");
        for(int i=x+1;i<m;i++)
            System.out.print(a[i][n-1]+" ");
    }
}

```

58

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
class TestClass {
    public static void main(String args[] ) throws Exception {
        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();
        for(int i=n/2,j=n-2;i>0;i--,j=j-2)
        {
            int y=i;
            while((n/2)-y>0)
            {
                System.out.print(" ");
                y++;
            }
            System.out.print("*");
            int x=j;
            while(x!=0)
                {System.out.print(" ");

```

```
        x--;}  
    System.out.print(" ");  
    System.out.println("*");  
}  
int x=((n/2)+1);  
while(x!=0)  
{  
    for(int i=1;i<n;i++)  
        System.out.print(" ");  
    System.out.println("*");  
    x--;  
}  
}
```