In [1]:
```
size=int(input())
```

```
2
```

In [4]:
```
#count divisions
def countdiv(i,j,k):
    count=0
    for a in range(i,j+1):
        if a%k==0:
            count=count+1
    print(count)
countdiv(1,10,1)
```

```
10
```

In [5]:
```
def counts():
    l=[]
    for i in range(0,3):
        a=int(input())
        l.append(a)
    print(l)
counts()
```

```
1
10
1
[1, 10, 1]
```

In [7]:
```
#count divisiors
def countdiv(i,j,k):
    count=0
    for a in range(i,j+1):
        if a%k==0:
            count=count+1
    print(count)
st=input()
st=st.split()
i=int(st[0])
j=int(st[1])
k=int(st[2])
countdiv(i,j,k)
```

```
1 10 1
10
```

In [15]:
```
#polindrome string
def polin(s):
    a=[]
    for i in s:
        a.append(i)
    a.reverse()
    print(a)
    if s==a:
        print("yes")
    else:
        print("false")
polin("sas")
```

```
['s', 'a', 's']
false
```

In [17]:
```
a=['s','a']
b=str(a)
b
```

Out[17]:
```
"['s', 'a']"
```

In [18]:
```
def polin(s):
    if s==s[::-1]:
        print("YES")
    else:
        print("NO")
s=input()
polin(s)
```

```
aba
YES
```

In [30]:
```
#toggle string
def toggl(s):
    for i in s:
        if i==i.lower():
            a=i.upper()
            print(a,end="")
        elif i==i.upper():
            a=i.lower()
            print(a,end="")

s="sAth"
toggl(s)
```

```
SaTH
```

In [36]:
```
def st(n):
    for i in range(0,n):
        s1=input("enter s1")
        s2=input("enter s2")
        for l1 in s1:
            for l2 in s2:
                print(l2,end="")

st(2)

2 3 5 7 11 17
```

```
enter s1sa
enter s2sa
sasaenter s1qq
enter s2ww
qqww
```

In [18]:
```
#prime no range
def primerange(n):

    for j in range(n+n):
            c=0
            for i in range(1,n):
                if j%i==0:
                    c=c+1
            if c==2:
                print(j)

primerange(5)
```

```
2
3
9
```

In [ ]:
```

```

In [25]:
```
#prime range
def primerange(n):

    for j in range(n):
            c=0
            for i in range(1,n):
                if j%i==0:
                    c=c+1
            if c==2:
                print(j)

primerange(9)
```

```
2
3
5
7
```

In [3]:
```
def defftime(sh,sm,eh,em):
    tm=0
    sm=sh*60+sm
    em=eh*60+em
    tm=em-sm
    sh=tm//60
    eh=tm%60
    print(sh,eh)
n=int(input())
for i in range(0,n):
    s=input()
    s=s.split()
    sh=int(s[0])
    sm=int(s[1])
    eh=int(s[2])
    em=int(s[3])
    defftime(sh,sm,eh,em)
```

```
2
1 44 2 14
0 30
2 42 8 23
5 41
```

In [12]:
```
#count char sum
def charsum(st):
    letters=['','a','b','c','d','e','f','g','h','i','j','k','l','m','n','o','p',
    su=0
    for i in st:

        for j in letters:
            if i==j:
                su=su+letters.index(i)

    print(su)
st=input()
charsum(st)
```

```
aba
4
```

In [5]:
```
i=input().split()
n=int(i[0])
q=int(i[1])
numbers=input().split()
sum1=0
len1=0
for z in range(n):
    numbers[z]=int(numbers[z])
for j in range(q):
    k=input().split()
    e1=int(k[0])
    e2=int(k[1])
    if e2==len(numbers):
        sum1=sum(numbers[e1:e2-1])
        len1=len(numbers[e1:e2-1])
    else:
        sum1=sum(numbers[e1:e2])
        len1=len(numbers[e1:e2])
    print(sum1//len1)
```

```
5 3
1 2 3 4 5
1 3
2
2 4
3
2 5
3
```

In [22]:
```
l=input()
count=0
count1=0
count2=0
for i in l:
    if i==i.isdigit():
        count=count+1
    elif i==i.isalpha():
        count1=count1+1
    else:
        count2=count2+1
print(count)
print(count1)
```

```
ssd1
0
0
```

In [4]:
```
def perfect(n):
    sums=0
    for i in range(1,n):
        if n%i==0:
            sums=sums+i
    if sums==n:
        print("YES")
    else:
        print("NO")
a=int(input())
for j in range(a):
    n=int(input())
    perfect(n)
```

```
2
6
YES
10
NO
```

In [2]:
```
def highrem(n):
    r=0
    for i in range(1,n):
        rem=n%i
        if r>rem
```

Out[2]: ()

In [10]:
```
def primeNo(n):
    fc = 0
    for k in range(1,n+1):
        n = k
        c = 0
        for i in range(1,n+1):
            if(n%i==0):
                c=c+1
        if(c==2):
            fc = fc+1
    if (fc==2):
        print("YES")
    else:
        print("NO")

primeNo(7)
```

```
NO
```

In [ ]:

In [ ]: