

Recursive sum

```
In [1]: 1 def recursivesum():
2         ntest=int(input())
3         t=0
4         for j in range(ntest):
5             d=input().split()
6             a=int(d[0])
7             b=int(d[1])
8             t=t+a*b
9         if t<=9:
10             return t
11         else:
12             while t>9:
13                 check=list(str(t))
14                 check=[int(x) for x in check]
15                 t=sum(check)
16             return t
17
18 n=int(input())
19 for a in range(n):
20     print(recursivesum())
21
22 # Write your code here
23
```

```
3
3
2 1
1 2
2 9
4
1
8 1
8
3
2 5
1 4
1 5
1
```

Roy and profile picture

```
In [2]: 1 def profilepic(w,h,l):
2         if w<l or h<l:
3             print("UPLOAD ANOTHER")
4         elif w==h:
5             print("ACCEPTED")
6         else:
7             print("CROP IT")
8     l=int(input()) #180
9     n=int(input())
10    for i in range(1,n+1):
11        s=input().split()
12        w=int(s[0])
13        h=int(s[1])
14        profilepic(w,h,l)
15
16    # Write your code here
17
```

```
180
3
640 480
CROP IT
120 300
UPLOAD ANOTHER
130 130
UPLOAD ANOTHER
```

Hello

```
In [3]: 1 print("Hello Kirti")
2
```

```
Hello Kirti
```

Life,the universe and everything

```
In [4]: 1 while(1):
2         n=int(input())
3         if(n==42):
4             break
5         else:
6             print(n)
```

```
1
1
2
2
88
88
42
```

Find Product

```
In [5]: 1 def findproduct(n,s):
2         ans=1
3         for i in range(n):
4             ans=(ans*int(s[i]))%(10**9+7)
5         print(ans)
6         return
7
8
9
10 n=int(input())
11 s=input().split()
12
13 findproduct(n,s)
14
```

```
5
1 2 3 4 5
120
```

Book of potion

```
In [6]: 1 def BookofPotion(s):
2         sum=0
3         i=1
4         for a in range(1,11):
5             sum=sum+(s%10)*i
6             s = s // 10
7             i=i+1
8
9         if(sum%11==0):
10            print("Legal ISBN")
11        else:
12            print("Illegal ISBN")
13        return
14
15
16 s=int(input())
17 BookofPotion(s)
18
```

```
1401601499
Legal ISBN
```

```

In [1]: 1 def costofBallons(g,p,gc,pc):
2         sum=0
3         if(g==1 and p==1):
4             sum = gc + pc
5         elif(g == 1):
6             sum=sum+gc
7         elif(p == 1):
8             sum=sum+pc
9         else:
10            sum = sum + 0
11        return sum
12
13        b=int(input()) #2
14
15        for i in (1,b+1):
16            prob=input().split()
17            if i == 1:
18                gc=int(prob[0]) # 9
19                pc=int(prob[1]) # 6
20            else:
21                gc=int(prob[1]) # 9
22                pc=int(prob[0])# 1
23            l=int(input())#10
24            rs = 0
25            for j in range(1,l+1):
26                k=input().split()
27                g=int(k[0])
28                p=int(k[1])
29                rs=rs+costofBallons(g,p,gc,pc)
30        print(rs)

```

```

2
9 6
10
1 1
1 1
0 1
0 0
0 1
0 0
0 1
0 1
1 1
0 0
69
1 9
10
0 1
0 0
0 0
0 1
1 0
0 1
0 1
0 0
0 1

```

0 0
14

In []:

| | |
|---|--|
| 1 | |
|---|--|