In [12]:
```
# Cost of Ballons
t=int(input())
for s in range(0,t):
    g,p=map(int,input().split())
    n=int(input())
    x1=[]
    x2=[]
    for t in range(0,n):
        i,j=map(int,input().split())
        x1.append(i)
        x2.append(j)
    if g>p:
        if sum(x1)>sum(x2):
            print(g*sum(x2)+p*sum(x1))
        else:
            print(g*sum(x1)+p*sum(x2))
    else:

        if sum(x1)>sum(x2):
            print(p*sum(x2)+g*sum(x1))
        else:
            print(p*sum(x1)+g*sum(x2))

```

```
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
```

Seating Arrangement

In [3]:

```
t=int(input())
for i in range(t):
    n=int(input())
    if n%12==1 :
        print((n+11),'WS')
    elif n%12==2:
        print((n+9),'MS')
    elif n%12==3:
        print((n+7),'AS')
    elif n%12==4:
        print((n+5),'AS')
    elif n%12==5:
        print((n+3),'MS')
    elif n%12==6:
        print((n+1),'WS')
    elif n%12==7:
        print((n-1),'WS')
    elif n%12==8:
        print((n-3),'MS')
    elif n%12==9:
        print((n-5),'AS')
    elif n%12==10:
        print((n-7),'AS')
    elif n%12==11:
        print((n-9),'MS')
    elif n%12==0:
        print((n-11),'WS')
```

```
2
18
19 WS
40
45 AS
```

In [10]:

```
#Function to add contact to contacts text file


from Packages import validator

def addcontact(name,phone,email):
    # store data as name,phone,email in the contacts file
    filename='DataFiles/contacts.txt'
    if not checkcontacts(name):
        if pnv(phone) and ev(email):

            if phonenumber(phone) and verifiedmail(email):


                with open(filename,'a') as f:



                    line=name +','+ str(phone) +','+ email +'\n'
                    f.write(line)
                print(name,'added to contacts')
            else:
                print('Invalid phone number and email ')
                return
    else:
        print(name,'already exists')
    return
#addcontact('name1','8790700295','name1@gmail.com')



#Function to check if contact already exists
import re
def checkcontacts(name):
    filename='DataFiles/contacts.txt'
    with open(filename,'r') as f:
        filedata=f.read()
        pattern=name+','
    return re.search(name,filedata)
#if checkcontacts("name1,"):
    #print(False)
addcontact('name1',8790700295,'name1@gmai.com')
```

```
name1 already exists
```

In [11]:

```
filename='DataFiles/contacts.txt'
def csvlist(filename):
    li=[]
    with open(filename,'r') as f:
        for line in f:
            li.append(line.split(','))
    return li
#csvlist(filename)
def listtofile(li):
    s = ''
    for i in li:
        s.join(i)
    return s
csvlist(filename)
#listtofile(li)

```

Out[11]:

```
[['name1', '9876543210', 'name1_234@gmail.com\n'],
 ['name2',
  '9492363502',
  'name2_345@gmail.comname1',
  '8790700295',
  'name1@gmail.com\n'],
 ['name1', '8790700295', 'name1@gmail.com\n'],
 ['name1', '8790700295', 'name1@gmail.com\n'],
 ['name1', '8790700295', 'name1@gmail.com\n'],
 ['name1', '8790700295', 'name1@gmail.com\n'],
 ['name1', '8790700295', 'name1@gmail.com\n'],
 ['name1', '8790700295', 'name1@gmail.com\n'],
 ['name1', '8790700295', 'name1@gmail.com\n'],
 ['name1', '8790700295', 'name1@gmail.com\n'],
 ['name1', '8790700295', 'name1@gmail.com\n'],
 ['name1', '8790700295', 'name1@gmail.com\n'],
 ['name1', '8790700295', 'name1@gmail.com\n'],
 ['name1', '8790700295', 'name1@gmail.com\n']]
```

In [15]:
```
#Given an array of ints, return True if 6 appears as either the first or las


#first_last6([1, 2, 6]) → True
#first_last6([6, 1, 2, 3]) → True
#first_last6([13, 6, 1, 2, 3]) → False









def first_last6(nums):
  if(nums[0] == 6 or nums[-1] == 6):


    return True
  else:


    return False

first_last6([6,1,2,3])
```

Out[15]: True

In [ ]:
```

```

In [ ]:
```

```

In [ ]:
```

```