**CHESS PROBLEM**

**INPUT:**

4

2 4

3 3

6 8

7 5

**OUTPUT:**

3

4

35

24

**CODING:**

a=int(input("how many numbers to be added:"))  
x=[]  
y=[]  
for i in range(0,a):  
 x.append(int(input("enter the numbers:")))  
for j in range(0,a):  
 y.append(int(input("enter the numbers:")))  
for k in range(0,a):  
 k=((x[i]-1)\*(y[i]-1))  
print(k)

**BINARY SORT**

**CODING:**

list1=[118,2,3,4,8,6,12,18]  
low=0  
key=6  
list=list1  
list.sort()  
print(list)  
high=len(list)  
print(high)  
while(low<=high):  
 mid=int((low+high)/2)  
 print(mid)  
 if list[mid]==key:  
 print("key found:")  
 break  
 elif list[mid]>key:  
 high=mid-1  
 else:  
 low=mid+1