There are N students in a class, where the i-th student has a score of A_i.

The i-th student will *boast* if and only if the number of students scoring less than or equal A_i is greater than the number of students scoring greater than A_i.

Find the number of students who will boast.

Input Format

- The first line contains T - the number of test cases. Then the test cases follow.

- The first line of each test case contains a single integer N - the number of students.

- The second line of each test case contains N integers $1,2,…,A_1,A_2,…,A_N$ - the scores of the students.

Output Format

For each test case, output in a single line the number of students who will boast.

Constraints

- $1≤10001≤T≤1000$

- $1≤1001≤N≤100$

- $0≤1000≤A_i≤100$

Sample Input

3

3

100 100 100

3

2 1 3

4

30 1 30 30

Sample Output

3

2

3

C++ Solution

```cpp
#include<bits/stdc++.h>

using namespace std;

int main() {

        int t;

        cin>>t;

        while(t--)

        {

            int n;

            cin>>n;

            map<int,int>m;


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

            {

                int x;

                cin>>x;

                m[x]++;

            }

            vector<int>v(n);

            int i=0,sum=0;

            for(auto it:m)

            {

                if(i!=0)

                v[i]=v[i-1]+it.second;


                if(i==0)v[i]=it.second;


                if(v[i]>n-v[i])

                {
```
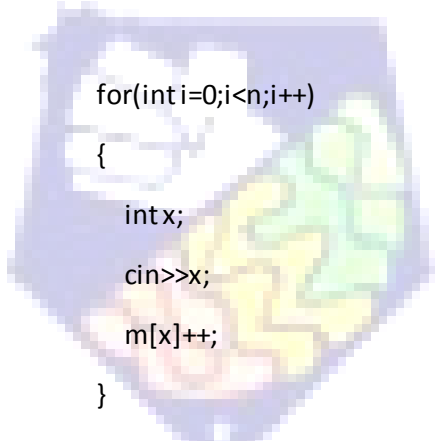
```
        sum+=it.second;

      }

    i++;

   }

  cout<<sum<<endl;

 }

 return 0;

}
```

Java

```java
import java.util.*;

import java.lang.*;

import java.io.*;

class Main

{

    public static void main (String[] args) throws java.lang.Exception

    {

            Scanner s= new Scanner(System.in);

            int t= s.nextInt();

            while(t-->0){

              int n = s.nextInt();

              int a[] = new int[n];

              for(int i=0;i<n;i++){

                 a[i] = s.nextInt();

              }

              Arrays.sort(a);

              int cnt=n/2;

              while(cnt>0 && a[cnt-1]==a[cnt]){
```

```
                cnt--;
            }
          System.out.println(n-cnt);
        }
      }
}
```

Python

```python
t = int(input())
lc = []
for mml in range(0,t):
    l = int(input())
    jk = str(input())
    tp = []
    for kkc in jk.split(" "):
        tp.append(int(kkc))
    lc.append(tp)

for bb in lc:
    ofr=0
    for iir in range(0,len(bb)):
        l = 0
        m = 0
        for kke in range(0,len(bb)):
            if bb[kke] <= bb[iir]:
                l+=1
            else:
```

```
        m+=1
    if l>m:
        ofr+=1
print(ofr)
```