Day 71 coding Statement : There are N students in a class, where the i-th student has a score of $Ai?$.

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

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 $1,2,\ldots,A1?,A2?,\ldots,AN?$ - the scores of the students.

Output Format

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

Constraints

- $1 \leq 10001 \leq T \leq 1000$
- $1 \leq 1001 \leq N \leq 100$
- $0 \leq 1000 \leq Ai? \leq 100$

Sample Input

3

3

100 100 100

3

2 1 3

4

30 1 30 30

Sample Output

3

2

3

```java
import java.util.Arrays;
import java.util.Scanner;

public class RatanPrajapati_day71 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int T = sc.nextInt();
        while (T-- > 0) {
            int N = sc.nextInt();
            int arr[] = new int[N];
            for (int i = 0; i < N; i++) {
                arr[i] = sc.nextInt();
            }
            solve(arr, N);
        }
    }
    public static void solve(int[] arr, int N) {
        Arrays.sort(arr);
        int cnt = N / 2;
        while (cnt > 0 && arr[cnt - 1] == arr[cnt]) {
            cnt--;
        }
        System.out.println(N - cnt);
    }
}
```