

## Emptying Array

You are given an array of integers. In one operation, you can:

- 1) Pick two numbers  $x$  and  $y$ , and remove them if and only if  $x \neq y$
- 2) Remove a number  $x$ .

What is the minimum number of operations required to remove all numbers from the array?

### Input

First line contains  $T$ , number of testcases. Every testcase starts with  $n$ , number of integers in the array. Then  $n$  integers follow.

### Output

Output  $T$  lines, answer for each test case.

### Constraints

$1 \leq T \leq 10$   
 $1 \leq n \leq 100000$   
 $1 \leq a[i] \leq 100000$

### Sample Input

```
3
2
1 2
2
1 1
3
1 2 3
```

### Sample Output

```
1
2
2
```