

Majority Element

You are given an array A of size N. It contains integers such that one particular element occurs more than or equal to $N/2$ times in this array. Find this element.

Input format:

First line contains the the number of test cases, T.

The lines that follow contain the test cases. The first line in each test case contains the size of the array, N. The next line contains the elements of the array (space separated).

Output format

For each test case output a single line containing the desired element.

Constraints

$1 \leq T \leq 10$

$1 \leq N \leq 200000$

$1 \leq A[i] \leq 10^9$

Time Limit : 1 sec

Sample Input:

3

5

2 1 2 3 2

7

1 1 7 6 1 1 11

10

1 2 3 4 5 4 4 4 4 4

Sample Output:

2

1

4