

Majority Element

Submissions: 105710 (/problem_submissions.php?pid=305) Accuracy: 39.96% Difficulty: Basic
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Problems

Given an array **A** of **N** elements. Find the majority element in the array. A majority element in an array A of size N is an **element that appears more than N/2 times in the array.**

Input:

The first line of the input contains **T** denoting the number of testcases. The first line of the test case will be the size of array and second line will be the elements of the array.

Output:

For each test case the output will be the majority element of the array. Output **"-1"** if no majority element is there in the array.

Constraints:

$1 \leq T \leq 100$

$1 \leq N \leq 10^7$

$0 \leq A_i \leq 10^6$

Example:

Input:

2

5

3 1 3 3 2

3

1 2 3

Output:

3
-1

Explanation:

Testcase 1: Since, 3 is present more than $N/2$ times, so it is the majority element.

**** For More Input/Output Examples Use 'Expected Output' option ****

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