



<sup>1</sup> MAAHESH S 2024-CSD-A ▾

M2

Started on	Thursday, 4 September 2025, 8:33 AM
State	Finished
Completed on	Thursday, 4 September 2025, 8:44 AM
Time taken	11 mins 18 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

**Question 1** | Correct Mark 1.00 out of 1.00

Given an array `nums` of size `n`, return *the majority element*.

The majority element is the element that appears more than  $\lfloor n / 2 \rfloor$  times. You may assume that the majority element always exists in the array.

**Example 1:**

Input: `nums = [3,2,3]`

Output: 3

**Example 2:**

Input: `nums = [2,2,1,1,1,2,2]`

Output: 2

**Constraints:**

- `n == nums.length`
- `1 <= n <= 5 * 104`
- `-231 <= nums[i] <= 231 - 1`

**For example:**

Input	Result
3 3 2 3	3
7 2 2 1 1 1 2 2	2

**Answer:** (penalty regime: 0 %)

```

1  #include<stdio.h>
2  int main(){
3      int n;
4      scanf("%d",&n);
5      int nums[n];
6      for(int i=0;i<n;i++){
7          scanf("%d",&nums[i]);
8      }
9      int count=0;
10     int candiate=0;
11     for(int i=0;i<n;i++){
12         if(count==0){
13             candiate=nums[i];
14             count=1;
15         }else if(nums[i]==candiate){
16             count++;
17         }else{
18             count--;
19         }
20     }
21     printf("%d\n",candiate);
22     return 0;
23 }
```

	Input	Expected	Got	
✓	3	3	3	✓
	3 2 3			

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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