



SIVA S 2024-CSE

S2

Started on Wednesday, 8 October 2025, 3:51 PM**State** Finished**Completed on** Wednesday, 8 October 2025, 3:52 PM**Time taken** 1 min**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 $\lfloor \frac{n}{2} \rfloor$ 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
3 2 3	
7	2
2 2 1 1 1 2 2	

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2
3 int findMajorityElement(int nums[], int n) {
4     int count = 0, candidate = 0;
5
6     for (int i = 0; i < n; i++) {
7         if (count == 0) {
8             candidate = nums[i];
9             count = 1;
10        } else if (nums[i] == candidate) {
11            count++;
12        } else {
13            count--;
14        }
15    }
16
17    return candidate;
18}
19
20 int main() {
21     int n;
22     scanf("%d", &n);
23     int nums[n];
24
25     for (int i = 0; i < n; i++) {
26         scanf("%d", &nums[i]);
27     }
28 }
```

	Input	Expected	Got	
✓	3 3 2 3	3	3	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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