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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 $\lfloor n / 2 \rfloor$ 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
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	3	✓
	3 2 3			

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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