



JAYARAMAN S 2024-CSE ▾

J2

Started on Friday, 19 September 2025, 2:08 PM**State** Finished**Completed on** Friday, 19 September 2025, 2:09 PM**Time taken** 35 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
3 int main() {
4     int n;
5     scanf("%d", &n);
6     int nums[n];
7     for (int i = 0; i < n; i++) {
8         scanf("%d", &nums[i]);
9     }
10    int count = 0, candidate = 0;
11    for (int i = 0; i < n; i++) {
12        if (count == 0) {
13            candidate = nums[i];
14            count = 1;
15        } else if (nums[i] == candidate) {
16            count++;
17        } else {
18            count--;
19        }
20    }
21    printf("%d\n", candidate);
22    return 0;
23 }
24
```

	Input	Expected	Got	
✓	3 3 2 3	3	3	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

[Back to Course](#)