



KARTHIK J 2024-IT ▾

K2

Started on	Friday, 3 October 2025, 1:41 PM
State	Finished
Completed on	Friday, 3 October 2025, 1:55 PM
Time taken	14 mins 40 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 majorityElement(int* nums, int numsSize) {
4      int count = 0;
5      int candidate = 0;
6
7      for (int i = 0; i < numsSize; i++) {
8          if (count == 0) {
9              candidate = nums[i];
10         }
11         count += (nums[i] == candidate) ? 1 : -1;
12     }
13
14     return candidate;
15 }
16
17 int main() {
18     int n;
19     scanf("%d", &n);
20
21     int nums[n];
22     for (int i = 0; i < n; i++) {
23         scanf("%d", &nums[i]);
24     }
25
26     int result = majorityElement(nums, n);

```

```
27 |         print+("%d\n", result);
28 |
29 |         return 0;
30 |     }
31 | }
```

	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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