



Dashboard My courses

CS23331-DAA-2024-CSE / 2-Majority Element



2-Majority Element

Started on	Tuesday, 30 September 2025, 12:14 PM
State	Finished
Completed on	Tuesday, 30 September 2025, 12:15 PM
Time taken	36 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100 %)

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

The majority element is the element that appears more than [n / 2] 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:

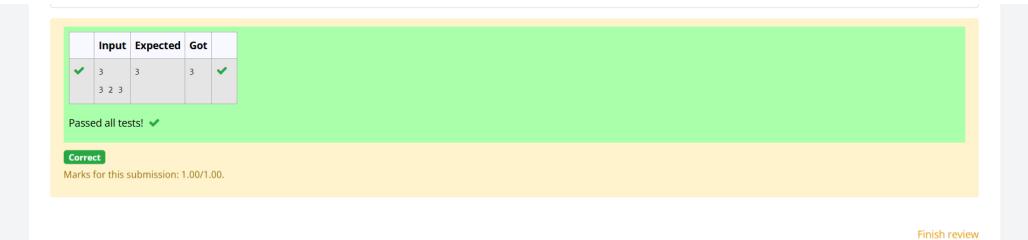
```
    n == nums.length
    1 <= n <= 5 * 10<sup>4</sup>
    -2<sup>31</sup> <= nums[i] <= 2<sup>31</sup> - 1
```

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>
3 v int majorityElement(int* nums, int n) {
        int count = 0, candidate = 0;
       for (int i = 0; i < n; i++) {
           if (count == 0) {
               candidate = nums[i];
               count = 1;
           } else if (nums[i] == candidate) {
               count++;
11 v
               count--;
14
       return candidate;
16 }
18 v int main() {
       scanf("%d", &n);
       int nums[n];
       for (int i = 0; i < n; i++) {
22 ▼
        scanf("%d", &nums[i]);
        int result = majorityElement(nums, n);
       printf("%d\n", result);
28
```



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