# <u>Dashboard</u> / <u>My courses</u> / <u>CS23331-DAA-2023-CSE</u> / <u>Divide and Conquer</u> / <u>2-Majority Element</u>

Started on	Friday, 30 August 2024, 2:32 PM
State	Finished
Completed on	Friday, 4 October 2024, 1:49 PM
Time taken	34 days 23 hours
Marks	1.00/1.00
Grade	<b>10.00</b> out of 10.00 ( <b>100</b> %)

```
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 [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:**

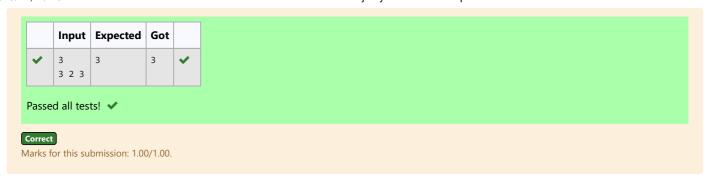
```
    n == nums.length
    1 <= n <= 5 * 10<sup>4</sup>
    -2<sup>31</sup> <= nums[i] <= 2<sup>31</sup> - 1
```

### For example:

Input	Result
3 3 2 3	3
7	2
2 2 1 1 1 2 2	

## Answer: (penalty regime: 0 %)

```
#include <stdio.h>
 1
    int find_majority(int nums[], int size) {
        int count = 0, candidate;
 3
 4 1
        for (int i = 0; i < size; i++) {</pre>
            if (count == 0) {
 5 1
 6
                 candidate = nums[i];
 7
                 count = 1;
             } else if (nums[i] == candidate) {
 8
9
                count++;
10
             } else {
                 count--;
11
12
13
14
        return candidate;
15
    }
16
17
    int main() {
18
        int size;
19
        scanf("%d", &size);
20
21
        int nums[size];
22
23
        for (int i = 0; i < size; i++) {</pre>
            scanf("%d", &nums[i]);
24
25
        int majority = find_majority(nums, size);
26
27
        printf("%d\n", majority);
28
        return 0;
29
    }
30
```



# ■ 1-Number of Zeros in a Given Array

3-Finding Floor Value ►