<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	Tuesday, 3 September 2024, 2:43 PM
State	Finished
Completed on	Tuesday, 1 October 2024, 2:36 PM
Time taken	27 days 23 hours
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 [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 1 1 1 2 2	2

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
 2
3
    int count(int arr[], int low, int high, int x)
4 ₹ {
        if ((low > high)|| (low == high && arr[low] != x))
5
6
            {return 0;}
7
        if (low == high && arr[low] == x)
8
9
            {return 1;}
10
        return count(arr, low,(low + high) / 2, x)+ count(arr, 1 + (low + high) / 2, high, x);
11
12
13
14
15
    int main()
16
  ₹ {
17
       int n;
        scanf("%d",&n);
18
19
        int arr[n] , a[n];
20
        for(int i=0;i<n;i++){</pre>
21
            scanf("%d",&arr[i]);
22
23
        for(int i=0;i<n;i++){</pre>
24
25
        a[i] =count(arr, 0, n - 1, arr[i]);
26
27
        int m;
28
29
        int max = a[0];
30
31
        for (int i = 0; i < n; i++){
            if (a[i] > max)
32
33
                max =arr[i];
34
                 m=i:
```

```
2-Majority Element: Attempt review

35
36
37
printf("%d",arr[m]);
38
39
40
```

■ 1-Number of Zeros in a Given Array

Jump to... \$

3-Finding Floor Value ►