169. Majority Element

Easy

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Given an array of size *n*, find the majority element. The majority element is the element that appears more than ⌊ n/2 ⌋ times.

You may assume that the array is non-empty and the majority element always exist in the array.

Example 1:

Input: [3,2,3]  
Output: 3

Example 2:

Input: [2,2,1,1,1,2,2]  
Output: 2

class Solution {

public:

int majorityElement(vector<int>& nums) {

//moore voting algorithm

int majority=nums[0],count=1;

for(int i=1;i<nums.size();i++){

if(count==0){

majority=nums[i];

count++;

}else count+=(majority==nums[i]?1:-1);

}

return majority;

}

};

Success

[Details](https://leetcode.com/submissions/detail/211763014/)

Runtime: 20 ms, faster than 99.60% of C++ online submissions for Majority Element.

Memory Usage: 11.2 MB, less than 63.50% of C++ online submissions forMajority Element.