

## 169. Majority Element

Easy

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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`

**Follow-up:** Could you solve the problem in linear time and in  $O(1)$  space?

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