**MAJORITY ELEMENT**

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.

**CODE**

class Solution {

public:

    int majorityElement(vector<int>& nums) {

       int count = 0;

        int candidate = 0;

        for (int i = 0; i < nums.size(); i++)

        {

            if (count == 0)

            {

                candidate = nums[i];

            }

            if (nums[i] == candidate)

            {

                count++;

            }

            else

            {

                count--;

            }

        }

        return candidate;

    }

};

**Example 1:**

**Input:** nums = [3,2,3]

**Output:** 3

**Example 2:**

**Input:** nums = [2,2,1,1,1,2,2]

**Output:** 2