

169. Majority Element

Description

Hints

Submissions

Discuss

Solution

Pick One

Given an array of size n , find the majority element. The majority element is the element that appears **more than** $\lfloor n/2 \rfloor$ 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

```
public class L169 {
    public int majorityElement(int[] nums) {

        HashMap<Integer, Integer> hashMap = new HashMap<>();

        int len = nums.length;
        int i = 0;
        /*
         * 用hashMap存储一个数以及其对应的值，如果大于就把他拿出来
         */
        while (i < nums.length) {
            if(hashMap.containsKey(nums[i])) {
                hashMap.put(nums[i], hashMap.get(nums[i]) + 1);
            }else {
                hashMap.put(nums[i], 1);
            }
            if(hashMap.get(nums[i]) > len / 2)
                break;
            i++; //不能忘记这个i++
        }
        return nums[i];
    }

    public static void main(String [] args) {
        int [] nums = new int [] {6,5,5};
        new L169().majorityElement(nums);
    }
}
```