**46. Majority Element**

中文

English

Given an array of integers, the majority number is the number that occurs more than half of the size of the array. Find it.

**Example**

**Example 1:**

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

Output: 1

**Example 2:**

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

Output: 2

**Challenge**

O(*n*) time and O(*1*) extra space

**Notice**

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