

1150. Check If a Number Is Majority Element in a Sorted Array

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Given an integer array `nums` sorted in non-decreasing order and an integer `target`, return `true` if `target` is a *majority element*, or `false` otherwise.

A **majority** element in an array `nums` is an element that appears more than `nums.length / 2` times in the array.

Example 1:

Input: `nums = [2,4,5,5,5,5,5,6,6]`, `target = 5`
Output: `true`
Explanation: The value 5 appears 5 times and the length of the array is 9. Thus, 5 is a majority element because $5 > 9/2$ is true.

Example 2:

Input: `nums = [10,100,101,101]`, `target = 101`
Output: `false`
Explanation: The value 101 appears 2 times and the length of the array is 4. Thus, 101 is not a majority element because $2 > 4/2$ is false.

Constraints:

- `1 <= nums.length <= 1000`
- `1 <= nums[i]`, `target <= 109`
- `nums` is sorted in non-decreasing order.

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Yes No

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Hint 1

How to check if a given number target is a majority element?.

Hint 2

Find the frequency of target and compare it to the length of the array.

Hint 3

You can find the frequency of an element using Binary Search since the array is sorted.

Hint 4

Using Binary Search, find the first and last occurrences of A. Then just calculate the difference between the indexes of these occurrences.

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