



# 5672. Check if Array Is Sorted and Rotated

My Submissions (/contest/weekly-contest-227/problems/check-if-array-is-sorted-and-rotated/submissions/) Back to Contest (/contest/weekly-contest-227/) Given an array nums, return true if the array was originally sorted in non-decreasing order, then rotated some number of User Accepted: 0 positions (including zero). Otherwise, return false. User Tried: 0 There may be duplicates in the original array. Note: An array A rotated by x positions results in an array B of the same length such that A[i] == B[(i+x) % 0 Total Accepted: A. length], where % is the modulo operation. **Total Submissions:** 0 Difficulty: (Easy)

### Example 1:

**Input:** nums = [3,4,5,1,2]Output: true **Explanation:** [1,2,3,4,5] is the original sorted array. You can rotate the array by x = 3 positions to begin on the the element of value 3: [3,4,5,1,2].

#### Example 2:

**Input:** nums = [2,1,3,4]Output: false Explanation: There is no sorted array once rotated that can make nums.

#### Example 3:

**Input:** nums = [1,2,3]Output: true Explanation: [1,2,3] is the original sorted array. You can rotate the array by x = 0 positions (i.e. no rotation) to make nums.

### Example 4:

```
Input: nums = [1,1,1]
Output: true
Explanation: [1,1,1] is the original sorted array.
You can rotate any number of positions to make nums.
```

### Example 5:

```
Input: nums = [2,1]
Output: true
Explanation: [1,2] is the original sorted array.
You can rotate the array by x = 5 positions to begin on the element of value 2: [2,1].
```

## Constraints:

- 1 <= nums.length <= 100
- 1 <= nums[i] <= 100

```
d c
JavaScript
1 • /**
     * @param {number[]} nums
2
     * @return {boolean}
3
4
   const check = (nums) => {
6
        if (isAscending(nums)) return true;
        let A = [...nums].sort((a, b) \Rightarrow a - b);
8
        let n = A.length;
9,
        for (let i = 0; i < n; i++) {
10
            let l = A.slice(0, i+ 1);
11
            let r = A.slice(i + 1);
```

```
12
             let ro = r.concat(l);
13
             if (ok(ro, nums)) return true;
        }
14
15
         return false;
16
    };
17
18 •
    const ok = (a, b) \Rightarrow \{
         let n = a.length;
19
20 •
         for (let i = 0; i < n; i++) {
             if (a[i] != b[i]) return false;
21
22
23
         return true;
24
    };
25
26 v const isAscending = (arr) ⇒ {
27 ▼
         return arr.every((x, i) \Rightarrow {
28
             return i === 0 \mid \mid x >= arr[i - 1];
29
30
    };
```

 $\ \square$  Custom Testcase

Use Example Testcases

Submission Result: Accepted (/submissions/detail/453004652/) 2

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