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Shortest Unsorted Continuous Subarray - LeetCode

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581. Shortest Unsorted Continuous Subarray

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Given an integer array `nums` , you need to find one **continuous subarray** that if you only sort this subarray in ascending order, then the whole array will be sorted in ascending order.

Return *the shortest such subarray and output its length*.

Example 1:

Input: `nums = [2,6,4,8,10,9,15]`

Output: 5

Explanation: You need to sort [6, 4, 8, 10, 9] in ascending order to make the whole array sorted in ascending order.

Example 2:

Input: `nums = [1,2,3,4]`

Output: 0

Example 3:

Input: `nums = [1]`

Output: 0

Constraints:

•

`1 <= nums.length <= 104`

•

`-105 <= nums[i] <= 105`

Follow up:

Can you solve it in `O(n)` time complexity?

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259,077

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class Solution {

public:

int findUnsortedSubarray(vector<int>& nums) {

int left = 0, right = 0;

int n = nums.size();

int max_val = nums[0], min_val = nums[n-1];

for (int i = 1; i < n; i++) {

max_val = max(max_val, nums[i]);

min_val = min(min_val, nums[i]);

if (max_val > min_val) {

left = i;

break;

}

for (int i = n-2; i >= 0; i--) {

if (min_val > max_val) {

right = i;

break;

}

}

return right - left + 1;

}

};

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