

581. Shortest Unsorted Continuous Subarray

Description

Hints

Submissions

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Solution

Pick One

Given an integer array, 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, too.

You need to find the **shortest** such subarray and output its length.

Example 1:

Input: [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.

Note:

1. Then length of the input array is in range [1, 10,000].
2. The input array may contain duplicates, so ascending order here means \leq .

```
public class L581 {
    /*
     * 先用一个数组tmp保存nums，然后对tmp进行排序，
     * 然后用两个变量low和high去找两个数组出现不同处的
     * 第一个位置和最后一个位置，最后返回high-low+1就是要找的
     * 数组长度。
     */
    public int findUnsortedSubarray(int[] nums) {
        //深拷贝
        int [] tmp = nums.clone();
        Arrays.sort(tmp);

        int n = nums.length;
        int low = 0;
        int high = n - 1;

        while (low < n && nums[low] == tmp[low]) {
            low ++;
        }
        while (high >= low && nums[high] == tmp[high]) {
            high --;
        }
        return high - low + 1;
    }
}
```