## 674 Longest Continuous Increasing Subsequence

```
2018年4月23日 16:38
```

Given an unsorted array of integers, find the length of longest continuous increasing subsequence (subarray).

**Example 1: Input:** [1,3,5,4,7] **Output:** 3

**Explanation:** The longest continuous increasing subsequence is [1,3,5], its length is 3. Even though [1,3,5,7] is also an increasing subsequence, it's not a continuous one where 5 and 7 are separated by 4.

Example 2: Input: [2,2,2,2,2] Output: 1

**Explanation:** The longest continuous increasing subsequence is [2], its length is 1.

Note: Length of the array will not exceed 10,000.

来自 <  $\underline{\text{https://leetcode.com/problems/longest-continuous-increasing-subsequence/description/>}$ 

给定一个未经排序的整数数组,找到最长且连续的的递增序列。

注意:数组长度不会超过10000。

## **Solution for Python3:**

```
class Solution:
 1
         def findLengthOfLCIS(self, nums):
 2
 3
 4
             :type nums: List[int]
 5
             :rtype: int
             0.00
 6
 7
             maxL = i = 0
             while i < len(nums):</pre>
 8
 9
                cnt = 1
                while i + 1 < len(nums) and nums[i] < nums[i+1]:
10
                    cnt += 1
11
12
                     i += 1
13
                maxL = max(maxL, cnt)
14
                 i += 1
15
             return maxL
```

## Solution for C++:

```
1 class Solution1 {
2 public:
```

```
int findLengthOfLCIS(vector<int>& nums) {
 3
            int maxL = 0, cnt = 1, i = 0;
 4
 5
            while (i < nums.size()) {</pre>
                 while (i + 1 < nums.size() && nums[i+1] >
 6
7
   nums[i]) {
 8
                     cnt++;
 9
                     i++;
10
                 }
11
                 maxL = max(maxL, cnt);
12
                 cnt = 1;
13
                 i++;
            }
14
15
            return maxL;
        }
16
    };
17
18
    class Solution2 {
19
   public:
20
        int findLengthOfLCIS(vector<int>& nums) {
21
            int res = 0, cnt = 0;
22
            for (int i = 0; i < nums.size(); i++) {</pre>
23
                 if (i == 0 || nums[i-1] < nums[i])</pre>
24
                     res = max(res, ++cnt);
25
26
                 else
                     cnt = 1;
27
            }
28
29
            return res;
30
        }
    };
```