## 128. Longest Consecutive Sequence \*

Question Editorial Solution

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Total Accepted: 75512 Total Submissions: 223721 Difficulty: Hard

Given an unsorted array of integers, find the length of the longest consecutive elements sequence.

For example,

Given [100, 4, 200, 1, 3, 2],

The longest consecutive elements sequence is [1, 2, 3, 4]. Return its length: 4.

Your algorithm should run in O(n) complexity.

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```
class Solution {
 1
 2
    public:
        int longestConsecutive(vector<int>& nums) {
 3
 4
            unordered map<int, bool> hash;
 5
            int maxConsecutiveNum = 0;
 6
            for (auto& it : nums) {
 7
                 hash.insert(pair<int, bool>(it, false));
 8
 9
            for (auto& it : hash) {
                 if (!it.second) {
10
                     int startKey = it.first, consecutiveNum = 1, nowKeyPtr = startKey
11
12
                     it.second = true;
                     auto hashIter = hash.find(--nowKeyPtr);
13
                     while (hashIter != hash.end()) {
14
15
                         hashIter->second = true;
16
                         ++consecutiveNum;
17
                         hashIter = hash.find(--nowKeyPtr);
18
                     }
19
                     nowKeyPtr = startKey;
                     hashIter = hash.find(++nowKeyPtr);
20
                     while (has Beard Feetabatcke(ndai)to:admin@leetcode.com?subject=Feedback)
21
```

```
22
                            hashIter->second = true;
  23
                            ++consecutiveNum;
                            hashIter = hash.find(++nowKeyPtr);
  24
  25
                       }
  26
  27
                       if (consecutiveNum > maxConsecutiveNum) {
  28
                            maxConsecutiveNum = consecutiveNum;
  29
                        }
                   }
  30
  31
                                                                                           ☐ Notes
  32
               return maxConsecutiveNum;
  33
           }
Custom Testcase
                                                           Run Code
                                                                           Submit Solution
```

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