

## 128. Longest Consecutive Sequence

Hard

 1438

 64

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

Your algorithm should run in  $O(n)$  complexity.

**Example:**

**Input:** [100, 4, 200, 1, 3, 2]

**Output:** 4

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

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Seen this question in a real interview before?

Yes

No

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```

1 package Algorithm;
2 import java.util.HashSet;
3 /*
4  * 解题思路，将起先全部添加到hashset里面，为的就是去除重复数字，另外在便利一遍，往下取去除，往上取去除，维持一个最大数量值
5  */
6 public class L128 {
7     public int longestConsecutive(int[] nums) {
8         if(nums == null || nums.length == 0)
9             return 0;
10
11         HashSet<Integer> hashSet = new HashSet<Integer>();
12         for(int i = 0; i < nums.length; i++) {
13             hashSet.add(nums[i]);
14         }
15
16         int max = 0;
17         for(int i = 0; i < nums.length; i++) {
18             if(hashSet.contains(nums[i])) {
19                 int count = 1;
20                 hashSet.remove(nums[i]);
21                 int low = nums[i] - 1;
22                 while (hashSet.contains(low)) {
23                     hashSet.remove(low);
24                     low--;
25                     count++;
26                 }
27                 int high = nums[i] + 1;
28                 while(hashSet.contains(high)) {
29                     hashSet.remove(high);
30                     high++;
31                     count++;
32                 }
33                 max = Math.max(max, count);
34             }
35         }
36         return max;
37     }
38 }
39

```