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## 128. Longest Consecutive Sequence

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Given an unsorted array of integers `nums`, return *the length of the longest consecutive elements sequence*.

You must write an algorithm that runs in  $O(n)$  time.

### Example 1:

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

**Output:** 4

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

### Example 2:

**Input:** `nums = [0,3,7,2,5,8,4,6,0,1]`

**Output:** 9

### Constraints:

- $0 \leq \text{nums.length} \leq 10^5$
- $-10^9 \leq \text{nums}[i] \leq 10^9$

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