128.Longest Consecutive Sequence

Medium

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 <= nums.length <= 10⁵
- -10⁹ <= nums[i] <= 10⁹

```
class Solution:
    def longestConsecutive(self, arr: List[int]) -> int:
        freqMap = {}
        for ele in arr:
            freqMap[ele] = True
        for key in freqMap.keys():
            if key - 1 in freqMap:
                freqMap[key] = False

maxLength = 0
        for key in freqMap.keys():
        if freqMap[key] is True:
            temp = 1
            while key + temp in freqMap:
            temp = temp + 1
```

maxLength = max(temp, maxLength)
return maxLength