Problem 2229: Check if an Array Is Consecutive

Problem Information

Difficulty: Easy
Acceptance Rate: 61.92%
Paid Only: Yes
Tags: Array, Hash Table, Sorting

Problem Description

Given an integer array `nums`, return `true` _if_`nums` _is**consecutive** , otherwise return _`false` _._

An array is **consecutive** if it contains every number in the range `[x, x + n - 1]` (**inclusive**), where `x` is the minimum number in the array and `n` is the length of the array.

Example 1:

Input: nums = [1,3,4,2] **Output:** true **Explanation:** The minimum value is 1 and the length of nums is 4. All of the values in the range [x, x + n - 1] = [1, 1 + 4 - 1] = [1, 4] = (1, 2, 3, 4) occur in nums. Therefore, nums is consecutive.

Example 2:

Input: nums = [1,3] **Output:** false **Explanation:** The minimum value is 1 and the length of nums is 2. The value 2 in the range [x, x + n - 1] = [1, 1 + 2 - 1], = [1, 2] = (1, 2) does not occur in nums. Therefore, nums is not consecutive.

Example 3:

Input: nums = [3,5,4] **Output:** true **Explanation:** The minimum value is 3 and the length of nums is 3. All of the values in the range [x, x + n - 1] = [3, 3 + 3 - 1] = [3, 5] = (3, 4, 5) occur in nums. Therefore, nums is consecutive.

Constraints:

* `1 <= nums.length <= 105` * `0 <= nums[i] <= 105`

Code Snippets

C++:

```
class Solution {
public:
bool isConsecutive(vector<int>& nums) {

}
};
```

Java:

```
class Solution {
public boolean isConsecutive(int[] nums) {

}
}
```

Python3:

```
class Solution:
def isConsecutive(self, nums: List[int]) -> bool:
```