

Problem 1909: Remove One Element to Make the Array Strictly Increasing

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 29.24%

Paid Only: No

Tags: Array

Problem Description

Given a **0-indexed** integer array `nums`, return `true` if it can be made **strictly increasing** after removing **exactly one** element, or `false` otherwise. If the array is already strictly increasing, return `true`.

The array `nums` is **strictly increasing** if `nums[i - 1] < nums[i]` for each index `(1 ≤ i < nums.length)`.

Example 1:

Input: `nums = [1,2,10,5,7]` **Output:** `true` **Explanation:** By removing 10 at index 2 from `nums`, it becomes `[1,2,5,7]`. `[1,2,5,7]` is strictly increasing, so return `true`.

Example 2:

Input: `nums = [2,3,1,2]` **Output:** `false` **Explanation:** `[3,1,2]` is the result of removing the element at index 0. `[2,1,2]` is the result of removing the element at index 1. `[2,3,2]` is the result of removing the element at index 2. `[2,3,1]` is the result of removing the element at index 3. No resulting array is strictly increasing, so return `false`.

Example 3:

Input: `nums = [1,1,1]` **Output:** `false` **Explanation:** The result of removing any element is `[1,1]`. `[1,1]` is not strictly increasing, so return `false`.

Constraints:

```
*`2 <= nums.length <= 1000` *`1 <= nums[i] <= 1000`
```

Code Snippets

C++:

```
class Solution {  
public:  
    bool canBeIncreasing(vector<int>& nums) {  
  
    }  
};
```

Java:

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

Python3:

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