334. Increasing Triplet Subsequence

Description

Given an integer array nums, return true if there exists a triple of indices (i, j, k) such that i < j < k and nums[i] < nums[j] < nums[k]. If no such indices exists, return false.

Example 1:

```
Input: nums = [1,2,3,4,5]
Output: true
Explanation: Any triplet where i < j < k is valid.</pre>
```

Example 2:

```
Input: nums = [5,4,3,2,1]
Output: false
Explanation: No triplet exists.
```

Example 3:

```
Input: nums = [2,1,5,0,4,6]
Output: true
Explanation: The triplet (3, 4, 5) is valid because nums[3] == 0 < nums[4] == 4 < nums[5] == 6.</pre>
```

Constraints:

1 <= nums.length <= 5 * 10 ⁵
 -2 ³¹ <= nums[i] <= 2 ³¹ - 1

Follow up: Could you implement a solution that runs in 0(n) time complexity and 0(1) space complexity?