

Problem 3105: Longest Strictly Increasing or Strictly Decreasing Subarray

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 64.95%

Paid Only: No

Tags: Array

Problem Description

You are given an array of integers `nums`. Return the length of the **longest** subarray of `nums` which is either **strictly increasing** or **strictly decreasing**.

Example 1.

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

Output: 2

Explanation:

The strictly increasing subarrays of `nums` are `[1]`, `[2]`, `[3]`, `[3]`, `[4]`, and `[1,4]`.

The strictly decreasing subarrays of `nums` are `[1]`, `[2]`, `[3]`, `[3]`, `[4]`, `[3,2]`, and `[4,3]`.

Hence, we return 2.

Example 2.

Input: `nums = [3,3,3,3]`

Output: 1

Explanation:

The strictly increasing subarrays of `nums` are `[3]`, `[3]`, `[3]`, and `[3]`.

The strictly decreasing subarrays of `nums` are `[3]`, `[3]`, `[3]`, and `[3]`.

Hence, we return `1`.

Example 3:

Input: `nums = [3,2,1]`

Output: `3`

Explanation:

The strictly increasing subarrays of `nums` are `[3]`, `[2]`, and `[1]`.

The strictly decreasing subarrays of `nums` are `[3]`, `[2]`, `[1]`, `[3,2]`, `[2,1]`, and `[3,2,1]`.

Hence, we return `3`.

Constraints:

`1 <= nums.length <= 50` `1 <= nums[i] <= 50`

Code Snippets

C++:

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

    }
};
```

Java:

```
class Solution {
    public int longestMonotonicSubarray(int[] nums) {
```

```
}  
}
```

Python3:

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