

# 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]`, `[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:
```