

Problem 896: Monotonic Array

Problem Information

Difficulty: Easy

Acceptance Rate: 62.06%

Paid Only: No

Tags: Array

Problem Description

An array is **monotonic** if it is either monotone increasing or monotone decreasing.

An array `nums` is monotone increasing if for all `i <= j`, `nums[i] <= nums[j]`. An array `nums` is monotone decreasing if for all `i <= j`, `nums[i] >= nums[j]`.

Given an integer array `nums`, return `true` _if the given array is monotonic, or_ `false` _otherwise_.

Example 1:

Input: nums = [1,2,2,3] **Output:** true

Example 2:

Input: nums = [6,5,4,4] **Output:** true

Example 3:

Input: nums = [1,3,2] **Output:** false

Constraints:

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

Code Snippets

C++:

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

Java:

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

Python3:

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