

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 $i \leq j$, `nums[i] ≤ nums[j]`. An array `nums` is monotone decreasing if for all $i \leq j$, `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:
```