896. Monotonic Array

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 <= 10^5`
- `-10^5 <= nums[i] <= 10^5`