Problem 3423: Maximum Difference Between Adjacent Elements in a Circular Array

Problem Information

Difficulty: Easy
Acceptance Rate: 75.75%
Paid Only: No
Tags: Array

Problem Description

Given a **circular** array `nums`, find the **maximum** absolute difference between adjacent elements.

Note : In a circular array, the first and last elements are adjacent.

Example 1:

Input: nums = [1,2,4]

Output: 3

Explanation:

Because `nums` is circular, `nums[0]` and `nums[2]` are adjacent. They have the maximum absolute difference of `|4 - 1| = 3`.

Example 2:

Input: nums = [-5,-10,-5]

Output: 5

Explanation:

The adjacent elements `nums[0]` and `nums[1]` have the maximum absolute difference of `|-5 - (-10)| = 5`.

Constraints:

* `2 <= nums.length <= 100` * `-100 <= nums[i] <= 100`

Code Snippets

C++:

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

}
};
```

Java:

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

}
}
```

Python3:

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