Problem List

Description | Editorial | Solutions | Submissions

3353. Minimum Total Operations

Premium

Solved

Easy | Topics | Hint

Given an array of integers `nums`, you can perform *any* number of operations on this array.

In each **operation**, you can:

- Choose a **prefix** of the array.
- Choose an integer `k` (which can be negative) and add `k` to each element in the chosen prefix.

A **prefix** of an array is a subarray that starts from the beginning of the array and extends to any point within it.

Return the **minimum** number of operations required to make all elements in `arr` equal.

Example 1:

Input: `nums = [1,4,2]`

Output: 2

Explanation:

- **Operation 1**: Choose the prefix `[1, 4]` of length 2 and add -2 to each element of the prefix. The array becomes `[-1, 2, 2]`.
- **Operation 2**: Choose the prefix `[-1]` of length 1 and add 3 to it. The array becomes `[2, 2, 2]`.
- Thus, the minimum number of required operations is 2.

Example 2:

Input: `nums = [10,10,10]`

Output: `0`

Explanation:

- All elements are already equal, so no operations are needed.

Constraints:

- `1 <= nums.length <= 10^5`
- `-10^9 <= nums[i] <= 10^9`

Seen this question in a real interview before? 1/5

Yes | No

Accepted 1,198/1.9K | Acceptance Rate 63.8%

Topics

Hint 1

Discussion (3)

14 | 3 | 0 Online

Submit

Code

Python3 • Auto

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

        count = 0
        for i in range(1, len(nums)):
            if nums[i] != nums[i-1]:
                count += 1
        return count

```

Saved

Ln 3, Col 1

Testcase | Test Result

Accepted Runtime: 0 ms

Case 1 | Case 2

Input

nums =
[1,4,2]

Output

2

Expected