

Problem 3434: Maximum Frequency After Subarray Operation

Problem Information

Difficulty: **Medium**

Acceptance Rate: 30.16%

Paid Only: No

Tags: Array, Hash Table, Dynamic Programming, Greedy, Enumeration, Prefix Sum

Problem Description

You are given an array `nums` of length `n`. You are also given an integer `k`.

You perform the following operation on `nums` **once** :

* Select a subarray `nums[i..j]` where $0 \leq i \leq j \leq n - 1$. * Select an integer `x` and add `x` to **all** the elements in `nums[i..j]`.

Find the **maximum** frequency of the value `k` after the operation.

Example 1:

Input: `nums = [1,2,3,4,5,6]`, `k = 1`

Output: 2

Explanation:

After adding -5 to `nums[2..5]`, 1 has a frequency of 2 in `[1, 2, -2, -1, 0, 1]`.

Example 2:

Input: `nums = [10,2,3,4,5,5,4,3,2,2]`, `k = 10`

Output: 4

****Explanation:****

After adding 8 to `nums[1..9]`, 10 has a frequency of 4 in `[10, 10, 11, 12, 13, 13, 12, 11, 10, 10]`.

****Constraints:****

* `1 <= n == nums.length <= 105` * `1 <= nums[i] <= 50` * `1 <= k <= 50`

Code Snippets

C++:

```
class Solution {
public:
    int maxFrequency(vector<int>& nums, int k) {

    }
};
```

Java:

```
class Solution {
    public int maxFrequency(int[] nums, int k) {

    }
}
```

Python3:

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