Problem 325: Maximum Size Subarray Sum Equals k

Problem Information

Difficulty: Medium
Acceptance Rate: 50.71%
Paid Only: Yes
Tags: Array, Hash Table, Prefix Sum

Problem Description

Given an integer array `nums` and an integer `k`, return _the maximum length of a_ _subarray_ _that sums to_ `k`. If there is not one, return `0` instead.

Example 1:

Input: nums = [1,-1,5,-2,3], k = 3 **Output:** 4 **Explanation:** The subarray [1, -1, 5, -2] sums to 3 and is the longest.

Example 2:

Input: nums = [-2,-1,2,1], k = 1 **Output:** 2 **Explanation:** The subarray [-1, 2] sums to 1 and is the longest.

Constraints:

* `1 <= nums.length <= 2 * 105` * `-104 <= nums[i] <= 104` * `-109 <= k <= 109`

Code Snippets

C++:

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

```
}
};
```

Java:

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

}
}
```

Python3:

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