

Problem 560: Subarray Sum Equals K

Problem Information

Difficulty: Medium

Acceptance Rate: 46.30%

Paid Only: No

Tags: Array, Hash Table, Prefix Sum

Problem Description

Given an array of integers `nums` and an integer `k`, return the total number of subarrays whose sum equals to `k`.

A subarray is a contiguous **non-empty** sequence of elements within an array.

Example 1:

Input: `nums = [1,1,1], k = 2` **Output:** 2

Example 2:

Input: `nums = [1,2,3], k = 3` **Output:** 2

Constraints:

`1 <= nums.length <= 2 * 104` `-1000 <= nums[i] <= 1000` `-107 <= k <= 107`

Code Snippets

C++:

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

```
}  
};
```

Java:

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

Python3:

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