

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:
```