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