Given an integer array nums and an integer k, return *the number of non-empty* ***subarrays*** *that have a sum divisible by* k.

A **subarray** is a **contiguous** part of an array.

**Example 1:**

Input: nums = [4,5,0,-2,-3,1], k = 5  
Output: 7  
Explanation: There are 7 subarrays with a sum divisible by k = 5:  
[4, 5, 0, -2, -3, 1], [5], [5, 0], [5, 0, -2, -3], [0], [0, -2, -3], [-2, -3]

**Example 2:**

Input: nums = [5], k = 9  
Output: 0

**Constraints:**

* 1 <= nums.length <= 3 \* 104
* -104 <= nums[i] <= 104
* 2 <= k <= 104