Given an array A of integers, return the number of (contiguous, non-empty) subarrays that have a sum divisible by K.

**Example 1:**

**Input:** A = [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]

**Note:**

1. 1 <= A.length <= 30000
2. -10000 <= A[i] <= 10000
3. 2 <= K <= 10000