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

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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], [-2, -3]
class Solution {
    public int subarraysDivByK(int[] A, int k) {
        int[] map = new int[k];
         map[0] = 1;
        int count = 0, sum = 0;
        for(int a : A) {
            sum = (sum + a) % k;
            if (sum < 0)
                sum += k;
                // Because -1 \% 5 = -1, but we need the
positive mod 4
            count += map[sum];
            map[sum]++;
        }
        return count;
    }
}
```