

Mischievous Tom

Tom is very mischievous. He always talks and disturbs everybody in the class. One day, in order to keep him busy, his teacher gave him an array of N non-negative numbers. She asked him to count the number of contiguous subarrays such that the sum of all elements in the subarray is divisible by k . As usual Tom is not interested in doing this and wants your help. Output your answer modulo 10^9+7 .

Constraints :

$1 \leq T \leq 20$

$1 \leq N \leq 10^5$

Sum of all numbers in array $\leq 10^5$

$1 \leq k \leq 10^5$

Time limit : 1 sec

Input format :

First line contains T , number of test cases.

Each test case consists of two lines. First line contains N (no. of elements) and K . Second line contains n numbers, separated by space.

Output format:

T lines containing the answer.

Sample Input :

1

5 3

1 0 2 0 1

Sample Output:

6