Problem I. Equal Mod Segments

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1.5 seconds
Memory limit:	256 megabytes

Given an array $a_1, a_2, \ldots, a_n$, consisting of n positive integers. You need to find a number of pairs (L, R) (where $L \leq R$) such that the following condition holds: $a_L \bmod a_{L+1} \bmod \ldots \bmod a_R = a_R \bmod a_{R-1} \bmod \ldots \bmod a_L$, where mod is defined as operation of taking the remainder of the division.

Input

The first line contains an integer n — the size of the array.

The second line contains n integers $a_1, a_2, \ldots, a_n$ — the elements of the array.

$$1 \leq n \leq 10^5$$
$$1 \leq a_i \leq 3 \cdot 10^5$$

Output

Print a single integer — number of pairs (L, R), satisfying the given condition.

Examples

standard input	standard output
2 5 5	3
3 8 3 5	4