CSES Problem Set

Subarray Divisibility

Time limit: 1.00 s **Memory limit:** 512 MB

Given an array of n integers, your task is to count the number of subarrays where the sum of values is divisible by n.

Input

The first input line has an integer n: the size of the array.

The next line has n integers $a_1, a_2, \ldots, a_n$: the contents of the array.

Output

Print one integer: the required number of subarrays.

Constraints

- $1 \le n \le 2 \cdot 10^5$
- $-10^9 \le a_i \le 10^9$

Example

Input:
```
5
3 1 2 7 4
```

Output:
```
1
```

Sorting and Searching

...
Nearest Smaller Values -
Subarray Sums I -
Subarray Sums II -
Subarray Divisibility -
Subarray Distinct Values -
Array Division -
Sliding Median -
Sliding Cost -
...

Your submissions