CSES Problem Set

Subarray Sums I

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

Given an array of n positive integers, your task is to count the number of subarrays having sum x.

Input

The first input line has two integers n and x: the size of the array and the target sum x.

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

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

Example

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

Output:
```
3
```

Sorting and Searching

...
Sum of Three Values –
Sum of Four Values –
Nearest Smaller Values –
Subarray Sums I –
Subarray Sums II –
Subarray Divisibility –
Subarray Distinct Values –
Array Division –
...