

Problem E. Subarray Sums I

Time limit 1000 ms

Mem limit 524288 kB

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, \dots, a_n : the contents of the array.

Output

Print one integer: the required number of subarrays.

Constraints

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

Example

Input	Output
5 7 2 4 1 2 7	3