

**CSES Problem Set****Subarray Sums II**TASK | [SUBMIT](#) | [RESULTS](#) | [STATISTICS](#)**Time limit:** 1.00 s **Memory limit:** 512 MB

Given an array of n 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

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

Example

Input:

```
5 7
2 -1 3 5 -2
```

Output:

```
2
```

Sorting and Searching

...

[Sum of Four Values](#)[Nearest Smaller Values](#)[Subarray Sums I](#)[Subarray Sums II](#)[Subarray Divisibility](#)[Subarray Distinct Values](#)[Array Division](#)[Sliding Median](#)

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Your submissions