## 2302. Count Subarrays With Score Less Than K

Solved

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The **score** of an array is defined as the **product** of its sum and its length.

• For example, the score of [1, 2, 3, 4, 5] is (1 + 2 + 3 + 4 + 5) \* 5 = 75.

Given a positive integer array nums and an integer k, return the **number of non-empty subarrays** of nums whose score is **strictly less** than k.

A **subarray** is a contiguous sequence of elements within an array.

## Example 1:

**Input:** nums = [2,1,4,3,5], k = 10

Output: 6 Explanation:

The 6 subarrays having scores less than 10 are:

- -[2] with score 2 \* 1 = 2.
- -[1] with score 1 \* 1 = 1.
- [4] with score 4 \* 1 = 4.
- -[3] with score 3\*1=3.
- [5] with score 5 \* 1 = 5.
- -[2,1] with score (2+1)\*2=6.

Note that subarrays such as [1,4] and [4,3,5] are not considered because their scores are 10 and 36 respectively, while we need scores strictly less than 10.

## Example 2:

**Input:** nums = [1,1,1], k = 5

Output: 5 Explanation:

Every subarray except [1,1,1] has a score less than 5.

[1,1,1] has a score (1 + 1 + 1) \* 3 = 9, which is greater than 5.

Thus, there are 5 subarrays having scores less than 5.

## **Constraints:**

- 1 <= nums.length <= 10<sup>5</sup>
- 1 <= nums[i] <= 10<sup>5</sup>
- 1 <= k <= 10<sup>15</sup>

Seen this question in a real interview before? 1/5

Yes No

Hint 1

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| Hint 2            | ~ |
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