# 2302. Count Subarrays With Score Less Than K

## Description

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:

#### 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 <=  $10^{5}$
- 1 <= nums[i] <= 10 <sup>5</sup>
- 1 <= k <=  $10^{15}$