//https://www.geeksforgeeks.org/problems/count-the-subarrays-having-product-less-than-k1708/1

**Count the subarrays having product less than k**

Given an array of positive numbers, the task is to find the number of possible contiguous subarrays having product less than a given number k.

**Example 1:**

**Input :**

n = 4, k = 10

a[] = {1, 2, 3, 4}

**Output :**

7

**Explanation:**

The contiguous subarrays are {1}, {2}, {3}, {4}

{1, 2}, {1, 2, 3} and {2, 3}, in all these subarrays  
product of elements is less than 10, count of  
such subarray is 7.  
{2,3,4} will not be a valid subarray, because   
2\*3\*4=24 which is greater than 10.

**Example 2:**

**Input:**

n = 7 , k = 100

a[] = {1, 9, 2, 8, 6, 4, 3}

**Output:**

16

**Your Task:**  
You don't need to read input or print anything. Your task is to complete the function **countSubArrayProductLessThanK()** which takes the array **a[]**, its size **n**and an integer **k** as inputs and returns the count of required subarrays.

**Expected Time Complexity:** O(n)  
**Expected Auxiliary Space:** O(1)

**Constraints:**  
1<=n<=106  
1<=k<=1015  
1<=a[i]<=105