[LeetCode](https://leetcode.com/problems/subarray-product-less-than-k/description/?envType=daily-question&envId=2024-03-27)

<https://github.com/AdityaKonda6/-50DaysOfCoding>

<https://leetcode.com/problems/subarray-product-less-than-k/description/?envType=daily-question&envId=2024-03-27>

<https://www.linkedin.com/in/aditya-adi-konda/>

Day 37 of [#50dayscodingchallenge](https://www.linkedin.com/feed/hashtag/?keywords=50dayscodingchallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633):  
[#leetcode](https://www.linkedin.com/feed/hashtag/?keywords=leetcode&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcodechallenge](https://www.linkedin.com/feed/hashtag/?keywords=leetcodechallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcodestreak](https://www.linkedin.com/feed/hashtag/?keywords=leetcodestreak&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcode2024](https://www.linkedin.com/feed/hashtag/?keywords=leetcode2024&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcode50day](https://www.linkedin.com/feed/hashtag/?keywords=leetcode50day&highlightedUpdateUrns=urn:li:activity:7166316239483461633)  
   
Ventured further into my coding journey today, tackling the engaging LeetCode Problem "Successfully solved LeetCode Problem 🎈💻“713. Subarray Product Less Than K.”  
   
✨ Task: Given an array of integers nums and an integer k, return the number of contiguous subarrays where the product of all the elements in the subarray is strictly less than k.

Examples:

Example 1:

Input: nums = [10,5,2,6], k = 100

Output: 8

Explanation: The 8 subarrays that have product less than 100 are:

[10], [5], [2], [6], [10, 5], [5, 2], [2, 6], [5, 2, 6]

Note that [10, 5, 2] is not included as the product of 100 is not strictly less than k.

Example 2:

Input: nums = [1,2,3], k = 0

Output: 0

Let's Connect:

If you find this problem intriguing or have insights to share, let's connect! I'm passionate about problem-solving, algorithmic thinking, and collaborative learning. Feel free to comment or reach out for engaging discussions and knowledge exchange.Unravel the mystery using your coding skills!

[#CodingChallenge](https://www.linkedin.com/feed/hashtag/?keywords=codingchallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#Algorithm](https://www.linkedin.com/feed/hashtag/?keywords=algorithm&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#LinkedInPost](https://www.linkedin.com/feed/hashtag/?keywords=linkedinpost&highlightedUpdateUrns=urn:li:activity:7166316239483461633) #Algorithm #Optimization #DataStructures #CodingChallenge  
  
Excited about the progress and challenges ahead!  
   
Make Sure You Follow My GitHub For Solutions: <https://github.com/AdityaKonda6/-50DaysOfCoding>  
  
  
Happy coding!

**Solution:-**

class Solution {

  public int numSubarrayProductLessThanK(int[] nums, int k) {

    if (k <= 1)

      return 0;

    int ans = 0;

    int prod = 1;

    for (int l = 0, r = 0; r < nums.length; ++r) {

      prod \*= nums[r];

      while (prod >= k)

        prod /= nums[l++];

      ans += r - l + 1;

    }

    return ans;

  }

}

