


# 713. Subarray Product Less Than K

Solved 

Medium

 Topics

 Companies

 Hint

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`.

## 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

## Sliding Window

```
class Solution {
    func numSubarrayProductLessThanK(_ nums: [Int], _ k: Int) ->
    Int {
        if(k<=1) {
            return 0
        }
        var product = 1
        var l = 0, r = 0
        var ans = 0
        while(r<nums.count) {
            product = product * nums[r]
            while(product>=k){
                product = product / nums[l]
                l = l + 1
            }
            if product < k {
                ans = ans + r - l + 1
            }
            r = r + 1
        }
        return ans    }}
```