**3. 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.

//Initial Template for Java

import java.util.\*;

import java.lang.\*;

import java.io.\*;

class GFG {

public static void main(String[] args) throws IOException

{

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

int t = Integer.parseInt(br.readLine().trim()); // Inputting the testcases

while(t-->0)

{

StringTokenizer stt = new StringTokenizer(br.readLine());

long n = Long.parseLong(stt.nextToken());

long k = Long.parseLong(stt.nextToken());

long a[] = new long[(int)(n)];

String inputLine[] = br.readLine().trim().split(" ");

for (int i = 0; i < n; i++) {

a[i] = Long.parseLong(inputLine[i]);

}

Solution obj = new Solution();

System.out.println(obj.countSubArrayProductLessThanK(a, n, k));

}

}

}

**class Solution {**

**public int countSubArrayProductLessThanK(long a[], long n, long k)**

**{**

**int ans=0;**

**int i=0,j=0;**

**long product=1;**

**while(i<n && j<n){**

**product\*=a[j];**

**while(i<=j && product>=k)**

**product/=a[i++];**

**ans+=(j-i+1);**

**++j;**

**}**

**return ans;**

**}**

**}**