Subarrays with K Different Integers

Given an integer array nums and an integer k, return *the number of **good subarrays** of* nums.

A **good array** is an array where the number of different integers in that array is exactly k.

- For example, [1,2,3,1,2] has 3 different integers: 1, 2, and 3.

A **subarray** is a **contiguous** part of an array.

Example 1:

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

Output: 7

Explanation: Subarrays formed with exactly 2 different integers: [1,2], [2,1], [1,2], [2,3], [1,2,1], [2,1,2], [1,2,1,2]

Example 2:

Input: nums = [1,2,1,3,4], k = 3

Output: 3

Explanation: Subarrays formed with exactly 3 different integers: [1,2,1,3], [2,1,3], [1,3,4].

Constraints:

- 1 <= nums.length <= $2 * 10^4$
- 1 <= nums[i], k <= nums.length