

# 2958. Length of Longest Subarray With at Most K Frequency

Medium Hint

You are given an integer array `nums` and an integer `k`.

The **frequency** of an element `x` is the number of times it occurs in an array.

An array is called **good** if the frequency of each element in this array is **less than or equal** to `k`.

Return *the length of the **longest good** subarray of* `nums`.

A **subarray** is a contiguous non-empty sequence of elements within an array.

## Example 1:

**Input:** `nums = [1,2,3,1,2,3,1,2]`, `k = 2`  
**Output:** 6  
**Explanation:** The longest possible good subarray is `[1,2,3,1,2,3]` since the values 1, 2, and 3 occur at most twice in this subarray. Note that the subarrays `[2,3,1,2,3,1]` and `[3,1,2,3,1,2]` are also good.  
It can be shown that there are no good subarrays with length more than 6.

## Example 2:

**Input:** `nums = [1,2,1,2,1,2,1,2]`, `k = 1`  
**Output:** 2  
**Explanation:** The longest possible good subarray is `[1,2]` since the values 1 and 2 occur at most once in this subarray. Note that the subarray `[2,1]` is also good.  
It can be shown that there are no good subarrays with length more than 2.

## Example 3:

**Input:** `nums = [5,5,5,5,5,5,5,5]`, `k = 4`  
**Output:** 4  
**Explanation:** The longest possible good subarray is `[5,5,5,5]` since the value 5 occurs 4 times in this subarray.  
It can be shown that there are no good subarrays with length more than 4.

## Constraints:

- `1 <= nums.length <= 105`
- `1 <= nums[i] <= 109`
- `1 <= k <= nums.length`

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Yes No

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Hint 1

Hint 2

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