Given a string s and an integer k, return *the length of the longest*

*substring*

*of* s *that contains at most* k ***distinct*** *characters*.

**Example 1:**

Input: s = "eceba", k = 2  
Output: 3  
Explanation: The substring is "ece" with length 3.

**Example 2:**

Input: s = "aa", k = 1  
Output: 2  
Explanation: The substring is "aa" with length 2.

**Constraints:**

* 1 <= s.length <= 5 \* 104
* 0 <= k <= 50