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