**3. Longest Substring Without Repeating Characters**

Medium

Given a string s, find the length of the **longest substring** without repeating characters.

**Example 1:**

**Input:** s = "abcabcbb"

**Output:** 3

**Explanation:** The answer is "abc", with the length of 3.

**Example 2:**

**Input:** s = "bbbbb"

**Output:** 1

**Explanation:** The answer is "b", with the length of 1.

**Example 3:**

**Input:** s = "pwwkew"

**Output:** 3

**Explanation:** The answer is "wke", with the length of 3.

Notice that the answer must be a substring, "pwke" is a subsequence and not a substring.

**Example 4:**

**Input:** s = ""

**Output:** 0

**Constraints:**

* 0 <= s.length <= 5 \* 104
* s consists of English letters, digits, symbols and spaces.