

Longest Substring Without Repeating Characters

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

Example 1:

Input: $s = \text{"abcabcbb"}$

Output: 3

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

Example 2:

Input: $s = \text{"bbbbbb"}$

Output: 1

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

Example 3:

Input: $s = \text{"pwwkew"}$

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.

Constraints:

- $0 \leq s.length \leq 5 * 10^4$
- s consists of English letters, digits, symbols and spaces.