Longest Substring Without Repeating Characters

Description

Hints

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Solution

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.

Constraints:

0 <= s.length <= 5 \* 104

S consists of English letters, digits, symbols and spaces.

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Python3

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Class Solution:

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Def lengthOfLongestSubstring(self, s: str) -> int:

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Char\_index\_map = {}

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Start = 0

6

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Max\_length = 0

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For end in range(len(s)):

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If s[end] in char\_index\_map and char\_index\_map[s[end]] >= start:

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Start = char\_index\_map[s[end]] + 1

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Char\_index\_map[s[end]] = end

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Max\_length = max(max\_length, end – start + 1)

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19

Return max\_length

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Custom Testcase( Contribute )

Run Code: Finished

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Run Code Result:

Your input

“abcabcbb”

Your answer

3

Expected answer

3