

String - LeetCode

Longest Substring Without Repeating Characters

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String

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3. Longest Substring Without Repeating Characters

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

41.7K544725 Online

Code

JavaAuto

```
1 class Solution {
2     public int lengthOfLongestSubstring(String s) {
3         int n = s.length();
4         int maxLength = 0;
5         Map<Character, Integer> charMap = new HashMap<>();
6         int left = 0;
7
8         for (int right = 0; right < n; right++) {
9             if (!charMap.containsKey(s.charAt(right)) || charMap.get(s.charAt(right)) < left) {
10                 charMap.put(s.charAt(right), right);
11                 maxLength = Math.max(maxLength, right - left + 1);
12             } else {
13                 left = charMap.get(s.charAt(right)) + 1;
14                 charMap.put(s.charAt(right), right);
15             }
16         }
17     }
18 }
```

SavedLn 20, Col 2

TestcaseTest Result

AcceptedRuntime: 0 ms

Case 1Case 2Case 3

Input

s = "abcabcbb"