AlgoExpert Quad Layout JavaScript 12px Sublime Monokai 00:00:00

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1

```
1\, // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
 3 // O(n) time | O(min(n, a)) space
 4 function longestSubstringWithoutDuplication(string) {
     const lastSeen = {};
      let longest = [0, 1];
      let startIdx = 0;
      for (let i = 0; i < string.length; i++) {</pre>
        const char = string[i];
10
        if (char in lastSeen) {
11
          startIdx = Math.max(startIdx, lastSeen[char] + 1);
12
13
        \textbf{if} \ (\texttt{longest[1] - longest[0]} \ < \ \texttt{i} \ + \ \texttt{1} \ - \ \texttt{startIdx}) \ \{
          longest = [startIdx, i + 1];
14
15
16
        lastSeen[char] = i;
17
18
      return string.slice(longest[0], longest[1]);
19 }
20
21 exports.longestSubstringWithoutDuplication = longestSubstringWithoutDuplication;
```