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

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
     3 // O(nm*min(n, m)) time | O((min(n, m))^2) space
     4 function longestCommonSubsequence(str1, str2) {
                    const small = str1.length < str2.length ? str1 : str2;</pre>
                       const big = str1.length >= str2.length ? str1 : str2;
                      const evenLcs = new Array(small.length + 1).fill([]);
                        const oddLcs = new Array(small.length + 1).fill([]);
                        for (let i = 1; i < big.length + 1; i++) {
 10
                           let currentLcs, previousLcs;
11
                             if (i % 2 === 1) {
                                     currentLcs = oddLcs;
12
13
                                      previousLcs = evenLcs;
14
                              } else {
 15
                                     currentLcs = evenLcs;
                                       previousLcs = oddLcs;
16
17
18
                               for (let j = 1; j < small.length + 1; j++) {</pre>
                                     if (big[i - 1] === small[j - 1]) {
19
20
                                             currentLcs[j] = previousLcs[j - 1].concat(big[i - 1]);
21
                                       } else {
22
                                             \texttt{currentLcs}[\texttt{j}] = \texttt{previousLcs}[\texttt{j}]. \\ \texttt{length} > \texttt{currentLcs}[\texttt{j} - 1]. \\ \texttt{length} ? \\ \texttt{previousLcs}[\texttt{j}] : \\ \texttt{currentLcs}[\texttt{j} - 1]; \\ \texttt{length} > \texttt{length} ? \\ \texttt{previousLcs}[\texttt{j}] : \\ \texttt{currentLcs}[\texttt{j} - 1]; \\ \texttt{length} > \texttt{length} ? \\ \texttt{previousLcs}[\texttt{j}] : \\ \texttt{currentLcs}[\texttt{j} - 1]; \\ \texttt{length} : \\ \texttt
23
24
25
26
                       return big.length % 2 === 0 ? evenLcs[small.length] : oddLcs[small.length];
27 }
28
29 exports.longestCommonSubsequence = longestCommonSubsequence;
```

Solution 3 Solution 4

Solution 1

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Solution 2