31 function buildSequence(lcs) {

let i = lcs.length - 1;

\_\_\_\_\_\_

const sequence = [];

32

33

14px

**Your Solutions** 

Run Code

Our Solution(s) Run Code

```
Solution 1 Solution 2 Solution 3
                                      Solution 4
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   // O(nm) time | O(nm) space
4
   function longestCommonSubsequence(str1, str2) {
     const lcs = [];
     for (let i = 0; i < str2.length + 1; i++) {</pre>
       const row = [];
       for (let j = 0; j < str1.length + 1; j++) {</pre>
9
         const entry = new Array(4);
10
         entry[1] = 0;
11
          row.push(entry);
12
13
       lcs.push(row);
14
15
     for (let i = 1; i < str2.length + 1; i++) {</pre>
16
       for (let j = 1; j < str1.length + 1; j++) {
17
         if (str2[i - 1] === str1[j - 1]) {
           lcs[i][j] = [str2[i - 1], lcs[i - 1][j - 1][1] + 1, i - 1, j -
18
19
          } else {
20
            if (lcs[i - 1][j][1] > lcs[i][j - 1][1]) {
21
             lcs[i][j] = [null, lcs[i - 1][j][1], i - 1, j];
22
23
             lcs[i][j] = [null, lcs[i][j - 1][1], i, j - 1];
26
27
28
     return buildSequence(lcs);
29 }
30
```

Solution 1 Solution 2

```
function longestCommonSubsequence(str1, str2) {
    // Write your code here.
}

// Do not edit the line below.
exports.longestCommonSubsequence = longestCommonSubsequence;
```

Solution 3

 Our Tests
 Custom Output
 Submit Code

Run or submit code when you're ready.

the second second second

TO THAT THE RY, THOUSE () I

mentioners and the second