int j = lcs[0].size() - 1;

while (i != 0 && j != 0) {

33

**Your Solutions** 

Solution 1 Solution 2

Run Code

Our Solution(s) Run Code

```
Solution 1 Solution 2 Solution 3 Solution 4
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   #include <vector>
   using namespace std;
 6 vector<char> buildSequence(vector<vector<vector<int>>> lcs);
   // O(nm) time | O(nm) space
9
   vector<char> longestCommonSubsequence(string str1, string str2) {
     vector<vector<int>>> lcs(
10
11
         str2.length() + 1,
12
         \verb|vector<vector<int>>(str1.length() + 1, vector<int>(4, 0)));\\
13
     for (int i = 1; i < str2.length() + 1; i++) {</pre>
14
       for (int j = 1; j < str1.length() + 1; j++) {</pre>
         if (str2[i - 1] == str1[j - 1]) {
16
           lcs[i][j] = {str2[i - 1], lcs[i - 1][j - 1][1] + 1, i - 1, j - 1]}
17
         } else {
           if (lcs[i - 1][j][1] > lcs[i][j - 1][1]) {
18
19
             lcs[i][j] = {-1, lcs[i - 1][j][1], i - 1, j};
20
21
             lcs[i][j] = {-1, lcs[i][j - 1][1], i, j - 1};
22
24
25
26
     return buildSequence(lcs);
27 }
28
29 vector<char> buildSequence(vector<vector<vector<int>>> lcs) {
30
     vector<char> sequence;
31
     int i = lcs.size() - 1;
```

```
1 #include <vector>
2 using namespace std;
3
4 vector<char> longestCommonSubsequence(string str1, string str2) {
5    // Write your code here.
6    return {};
7 }
```

Solution 3

 Our Tests
 Custom Output
 Submit Code

Run or submit code when you're ready.

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