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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.
   using System;
   using System.Collections.Generic;
 6 public class Program {
     // O(nm) time | O(nm) space
     public static List<char> LongestCommonSubsequence(string str1, stri
       int[,] lengths = new int[str2.Length + 1,str1.Length + 1];
10
       for (int i = 1; i < str2.Length + 1; i++) {</pre>
11
         for (int j = 1; j < str1.Length + 1; j++) {</pre>
12
           if (str2[i - 1] == str1[j - 1]) {
             lengths[i,j] = lengths[i - 1,j - 1] + 1;
14
            } else {
              lengths[i,j] = Math.Max(lengths[i - 1,j], lengths[i,j - 1]);
16
17
18
19
       return buildSequence(lengths, str1);
20
21
22
     public static List<char> buildSequence(int[,] lengths, string str) {
```

List<char> sequence = new List<char>();

if (lengths[i,j] == lengths[i - 1,j]) {

sequence.Insert(0, str[j - 1]);

} else if (lengths[i,j] == lengths[i,j - 1]) {

int i = lengths.GetLength(0) - 1;
int j = lengths.GetLength(1) - 1;

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

i--;

j--;

} else {

i--;

```
Solution 1 Solution 2 Solution 3
```

Run or submit code when you're ready.

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