

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

Solution 2

Solution 3

Solution 4

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 # O(nm) time | O(nm) space
4 def longestCommonSubsequence(str1, str2):
5     lengths = [[0 for x in range(len(str1) + 1)] for y in range(len(str2) + 1)]
6     for i in range(1, len(str2) + 1):
7         for j in range(1, len(str1) + 1):
8             if str2[i - 1] == str1[j - 1]:
9                 lengths[i][j] = lengths[i - 1][j - 1] + 1
10            else:
11                lengths[i][j] = max(lengths[i - 1][j], lengths[i][j - 1])
12    return buildSequence(lengths, str1)
13
14
15 def buildSequence(lengths, string):
16     sequence = []
17     i = len(lengths) - 1
18     j = len(lengths[0]) - 1
19     while i != 0 and j != 0:
20         if lengths[i][j] == lengths[i - 1][j]:
21             i -= 1
22         elif lengths[i][j] == lengths[i][j - 1]:
23             j -= 1
24         else:
25             sequence.append(string[j - 1])
26             i -= 1
27             j -= 1
28    return list(reversed(sequence))
29
```

Solution 1

Solution 2

Solution 3

```
1 def longestCommonSubsequence(str1, str2):
2     # Write your code here.
3     pass
4
```

Our Tests

Custom Output

Submit Code

```
1 def longestCommonSubsequence(str1, str2):
2     # Write your code here.
3     pass
4
```

```
1 def longestCommonSubsequence(str1, str2):
2     # Write your code here.
3     pass
4
```

```
18 # Add your code here
19 # Add your code here
20 # Add your code here
21 # Add your code here
22 # Add your code here
23 # Add your code here
24 # Add your code here
25 # Add your code here
26 # Add your code here
27 # Add your code here
28 # Add your code here
29 # Add your code here
30 # Add your code here
31 # Add your code here
32 # Add your code here
33 # Add your code here
34 # Add your code here
35 # Add your code here
36 # Add your code here
37 # Add your code here
38 # Add your code here
39 # Add your code here
40 # Add your code here
41 # Add your code here
42 # Add your code here
43 # Add your code here
44 # Add your code here
45 # Add your code here
46 # Add your code here
47 # Add your code here
48 # Add your code here
49 # Add your code here
50 # Add your code here
51 # Add your code here
52 # Add your code here
53 # Add your code here
54 # Add your code here
55 # Add your code here
56 # Add your code here
57 # Add your code here
58 # Add your code here
59 # Add your code here
60 # Add your code here
61 # Add your code here
62 # Add your code here
63 # Add your code here
64 # Add your code here
65 # Add your code here
66 # Add your code here
67 # Add your code here
68 # Add your code here
69 # Add your code here
70 # Add your code here
71 # Add your code here
72 # Add your code here
73 # Add your code here
74 # Add your code here
75 # Add your code here
76 # Add your code here
77 # Add your code here
78 # Add your code here
79 # Add your code here
80 # Add your code here
81 # Add your code here
82 # Add your code here
83 # Add your code here
84 # Add your code here
85 # Add your code here
86 # Add your code here
87 # Add your code here
88 # Add your code here
89 # Add your code here
90 # Add your code here
91 # Add your code here
92 # Add your code here
93 # Add your code here
94 # Add your code here
95 # Add your code here
96 # Add your code here
97 # Add your code here
98 # Add your code here
99 # Add your code here
100 # Add your code here
```

Run or submit code when you're ready.