

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1	Solution 2	Solution 3	Solution 4
<pre>1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved. 2 3 # O(nm) time O(nm) space 4 def longestCommonSubsequence(str1, str2): 5 lcs = [[None, 0, None, None] for x in range(len(str1) + 1)] for y in range(1, 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 lcs[i][j] = [str2[i - 1], lcs[i - 1][j - 1][1] + 1, i - 1, j - 1] 10 else: 11 if lcs[i - 1][j][1] > lcs[i][j - 1][1]: 12 lcs[i][j] = [None, lcs[i - 1][j][1], i - 1, j] 13 else: 14 lcs[i][j] = [None, lcs[i][j - 1][1], i, j - 1] 15 return buildSequence(lcs) 16 17 18 def buildSequence(lcs): 19 sequence = [] 20 i = len(lcs) - 1 21 j = len(lcs[0]) - 1 22 while i != 0 and j != 0: 23 currentEntry = lcs[i][j] 24 if currentEntry[0] is not None: 25 sequence.append(currentEntry[0]) 26 i = currentEntry[2] 27 j = currentEntry[3] 28 return list(reversed(sequence)) 29</pre>			
Solution 1	Solution 2	Solution 3	
<pre>1 def longestCommonSubsequence(str1, str2): 2 # Write your code here. 3 pass 4</pre>			

Our Tests

Custom Output

Submit Code

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