AlgoExpert

31

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Quad Layout

Swift

14px

Your Solutions

Sublime

Monokai

00:00:

Run Code

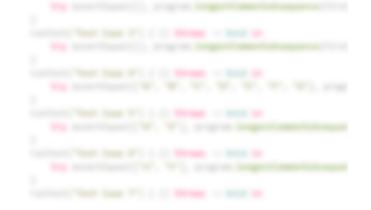
Our Solution(s) Run Code

```
Solution 1
            Solution 2
                          Solution 3
                                       Solution 4
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
3
   class Program {
       // O(nm * min(n, m)) time | O(min(n, m)^2) space
       func longestCommonSubsequence(firstString: String, secondString:
            let smallestString = firstString.count < secondString.count ?</pre>
           let biggestString = firstString.count >= secondString.count ?
9
           var evenLCS = Array(repeating: [String](), count: smallestStr
10
           var oddLCS = Array(repeating: [String](), count: smallestStri
11
12
           for i in stride(from: 1, to: biggestString.count + 1, by: 1) {
                if i % 2 == 0 {
14
                    secondSolutionHelper(i, biggestString, smallestString,
                    secondSolutionHelper(i, biggestString, smallestString,
16
17
18
19
20
            return biggestString.count % 2 == 0 ? evenLCS[smallestString.c
21
23
       func secondSolutionHelper(_ i: Int, _ biggestString: String, _ sma
24
            for j in stride(from: 1, to: smallestString.count + 1, by: 1)
                let firstIndex = biggestString.index(biggestString.startIn
26
                let secondIndex = smallestString.index(smallestString.star
27
28
                if biggestString[firstIndex] == smallestString[secondIndex
29
                    var diagonal = previousLCS[j - 1]
30
                    let char = String(smallestString[secondIndex])
```

diagonal.append(char)

currentLCS[j] = diagonal

 Our Tests
 Custom Output
 Submit Code



Run or submit code when you're ready.