AlgoExpert Quad Layout Go 12px Sublime Monokai 00:00:00

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

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Solution 1 Solution 2 Solution 3 Solution 4
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1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
   package main
 5 \ // \ O(nm*min(n, m)) \ time \ | \ O((min(n, m))^2) \ space
 6 func LongestCommonSubsequence(s1 string, s2 string) string \{
     small, big := s1, s2
     if len(s1) > len(s2) {
       small, big = big, small
9
10
     evenlcs := make([]string, len(small)+1)
11
12
      oddlcs := make([]string, len(small)+1)
13
     currentlcs, previouslcs := evenlcs, oddlcs
      for i := 1; i < len(big)+1; i++ {</pre>
14
15
       if i%2 == 1 {
16
         currentlcs, previouslcs = oddlcs, evenlcs
17
         currentlcs, previouslcs = evenlcs, oddlcs
18
19
20
        for j := 1; j < len(small)+1; j++ {</pre>
21
         if big[i-1] == small[j-1] {
22
           currentlcs[j] = string(append([]byte(previouslcs[j-1]), big[i-1]))
23
24
           if len(previouslcs[j]) > len(currentlcs[j-1]) {
25
             currentlcs[j] = previouslcs[j]
26
           } else {
27
             currentlcs[j] = currentlcs[j-1]
28
29
30
31
32
33
      if len(big)%2 == 0 {
34
       return evenlcs[len(small)]
35
       return oddlcs[len(small)]
36
37
38 }
```