AlgoExpert   Quad Layout   Go   14px   Sublime   Monokai   00:00:0

Our Solution(s)   Run Code

Solution 1   Solution 2   Solution 3   Solution 4

```go
// Copyright © 2020 AlgoExpert, LLC. All rights reserved.

package main

// O(nm) time | O(nm) space
func LongestCommonSubsequence(str1 string, str2 string) string {
  lengths := make([][]int, len(str2)+1)
  for i := range lengths {
    lengths[i] = make([]int, len(str1)+1)
  }
  for i := 1; i < len(str2)+1; i++ {
    for j := 1; j < len(str1)+1; j++ {
      if str2[i-1] == str1[j-1] {
        lengths[i][j] = lengths[i-1][j-1] + 1
      } else {
        lengths[i][j] = max(lengths[i-1][j], lengths[i][j-1])
      }
    }
  }

  return buildSequence(lengths, str1)
}

func buildSequence(lengths [][]int, str1 string) string {
  sequence := make([]byte, 0)
  i := len(lengths) - 1
  j := len(lengths[0]) - 1
  for i != 0 && j != 0 {
    if lengths[i][j] == lengths[i-1][j] {
      i -= 1
    } else if lengths[i][j] == lengths[i][j-1] {
      j -= 1
    } else {
```

Your Solutions   Run Code

Solution 1   Solution 2   Solution 3

```go
package main

// O(nm*min(n, m)) time | O(nm*min(n, m)) space
func LongestCommonSubsequence(s1 string, s2 string) string {
  // Write your code here.
  return ""
}
```

Our Tests

[illegible]

Custom Output   Submit Code

```
[illegible]
```

Run or submit code when you're ready.