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

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1 Solution 2

44

45 } 46

return result

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
    package main
   // O(nm) time | O(nm) space - where n is the length of the
    \ensuremath{//} first string and m is the length of the second string
    func InterweavingStrings(one, two, three string) bool {
      if len(three) != len(one)+len(two) {
        return false
10
11
      \texttt{cache} := \mathsf{make}([\,][\,]^*\mathsf{bool}, \ \mathsf{len}(\mathsf{one}) + 1)
12
      for i := 0; i < len(one)+1; i++ {</pre>
13
       cache[i] = make([]*bool, len(two)+1)
14
15
      return areInterwoven(one, two, three, 0, 0, cache)
16
17
18
    func areInterwoven(one, two, three string, i, j int, cache [][]*bool) bool {
      if cache[i][j] != nil {
19
20
       return *cache[i][j]
21
22
      k := i + j
      if k == len(three) {
24
25
       return true
26
27
      if i < len(one) \&\& one[i] == three[k] {
28
29
        result := areInterwoven(one, two, three, i+1, j, cache)
30
        cache[i][j] = &result
31
        if result {
32
          return true
33
34
35
      if j < len(two) && two[j] == three[k] {</pre>
36
37
        result := areInterwoven(one, two, three, i, j+1, cache)
        cache[i][j] = &result
38
39
        return result
40
41
      result := false
43
      cache[i][j] = &result
```