

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 package main
4
5 import (
6     "sort"
7 )
8
9 type Chain struct {
10     NextString string
11     MaxChainLength int
12 }
13
14 // O(n * m^2 + nlog(n)) time | O(nm) space - where n is the number of
15 // m is the length of the longest string
16 func LongestStringChain(strings []string) []string {
17     // For every string, imagine the longest string chain that starts wi
18     // Set up every string to point to the next string in its respective
19     // string chain. Also keep track of the lengths of these longest str
20     stringChains := map[string]*Chain{}
21     for _, str := range strings {
22         stringChains[str] = &Chain{NextString: "", MaxChainLength: 1}
23     }
24
25     // Sort the strings based on their length so that whenever we visit
26     // string (as we iterate through them from left to right), we can
27     // already have computed the longest string chains of any smaller st
28     sort.Slice(strings, func(i, j int) bool {
29         return len(strings[i]) < len(strings[j])
30     })
31     sortedStrings := strings
32
33     for _, str := range sortedStrings {
```

Solution 1 Solution 2 Solution 3

```
1 package main
2
3 func LongestStringChain(strings []string) []string {
4     // Write your code here.
5     return nil
6 }
7
```

Our Tests

Custom Output

Submit Code

```
1 package main
2
3 func LongestStringChain(strings []string) []string {
4     // Write your code here.
5     return nil
6 }
```

```
1 package main
2
3 func LongestStringChain(strings []string) []string {
4     // Write your code here.
5     return nil
6 }
```

```
1 # Run by VisualStudio Testrunner Testrunner 2
2 test = ["string", "string", "string", "string", "string", "string", "string", "string"]
3 expected = ["string", "string", "string", "string", "string", "string", "string", "string"]
4 output = compareStringFunctions(test, expected)
5 return output, expected, output
6
7
8 # Run by VisualStudio Testrunner Testrunner 2
9 test = ["string", "string", "string", "string", "string", "string", "string", "string"]
10 expected = ["string", "string", "string", "string", "string", "string", "string", "string"]
11 output = compareStringFunctions(test, expected)
12 return output, expected, output
13
14
```

Run or submit code when you're ready.