AlgoExpert

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Solution 1

Quad Layout

Swift

14px

Sublime

Monokai

00:00:

Run Code

Our Solution(s) Run Code

```
Your Solutions
```

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   class Program {
        class Chain {
           var nextString: String
            var maxChainLength: Int
            init(_ nextString: String, _ maxChainLength: Int) {
                self.nextString = nextString
                self.maxChainLength = maxChainLength
11
12
14
       // O(n * m^2 + nlog(n)) time | O(nm) space - where n is the number
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 sta
18
            \ensuremath{//} Set up every string to point to the next string in its resp
19
            // string chain. Also keep track of the lengths of these longe
20
            var stringChains = [String: Chain]()
21
            for str in strings {
                stringChains[str] = Chain("", 1)
24
25
            // Sort the strings based on their length so that whenever we
26
            // string (as we iterate through them from left to right), we
            \ensuremath{//} already have computed the longest string chains of any smal
27
28
            let sortedStrings = strings.sorted {
29
                $0.length < $1.length</pre>
30
31
            for str in sortedStrings {
33
                findLongestStringChain(str, &stringChains)
```

```
class Program {
   func longestStringChain(_ strings: [String]) -> [String] {
      // Write your code here.
      return []
   }
}
```

 Our Tests
 Custom Output
 Submit Code

Run or submit code when you're ready.