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

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1 Solution 2 Solution 3

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
               package main
               // O(ns + bs) time | O(ns) space
               \begin{tabular}{ll} func & MultiStringSearch(bigString string, smallStrings [] string) & [] bool & \{ continuous continuous (bigString string, smallStrings [] string) & [] bool & \{ continuous continuous (bigString string) & [] bool & \{ continuous (bigString string string) & [] bool & \{ continuous (bigString string) & [] bool & [] boo
                       trie := Trie{children: map[byte]Trie{}}
                       for _, str := range smallStrings {
                             trie.Add(str)
10
11
                       containedStrings := map[string]bool{}
12
                        for i := range bigString {
                             findSmallStringsIn(bigString, i, trie, containedStrings)
13
14
                       output := make([]bool, len(smallStrings))
15
16
                        for i, str := range smallStrings {
17
                              output[i] = containedStrings[str]
18
19
                       return output
20
21
22
                 \label{thm:containedStrings} function of the string of t
23
                       current := trie
24
                       for i := startIdx; i < len(str); i++ {</pre>
25
                              currentChar := str[i]
26
                               if _, found := current.children[currentChar]; !found {
27
                                   break
28
29
                               current = current.children[currentChar]
30
                              if end, found := current.children['*']; found {
31
                                      containedStrings[end.word] = true
32
33
34
35
36 type Trie struct {
37
                       children map[byte]Trie
38
39
                       word string
40
41
42 func (t Trie) Add(word string) {
43
                       current := t
44
                       for i := range word {
45
                             letter := word[i]
                               if _, found := current.children[letter]; !found {
46
47
                                      current.children[letter] = Trie{
48
                                            children: map[byte]Trie{},
49
                                      }
50
                              current = current.children[letter]
51
52
53
                       current.children['*'] = Trie{
54
                            children: map[byte]Trie{},
55
                               word: word,
56
57 }
```