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

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

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Solution 1 Solution 2 Solution 3
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46 } 47

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1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
    package main
   // O(b^2 + ns) time | O(b^2 + n) space
   func MultiStringSearch(bigString string, smallStrings []string) []bool {
     trie := NewTrie(bigString)
     output := make([]bool, len(smallStrings))
     for i, smallString := range smallStrings {
10
       output[i] = trie.Contains(smallString)
11
12
     return output
13 }
14
15
   type ModifiedSuffixTrie map[byte]ModifiedSuffixTrie
16
17 func NewTrie(str string) ModifiedSuffixTrie {
     trie := ModifiedSuffixTrie{}
18
     for i := range str {
19
20
       trie.Add(str, i)
21
22
     return trie
23 }
24
25
    func (trie ModifiedSuffixTrie) Add(str string, startIndex int) {
26
27
      for j := startIndex; j < len(str); j++ {
28
       letter := str[j]
29
        if _, found := node[letter]; !found {
30
         node[letter] = ModifiedSuffixTrie{}
31
32
       node = node[letter]
33
34
35
36 func (trie ModifiedSuffixTrie) Contains(str string) bool {
37
     node := trie
     for i := range str {
38
       letter := str[i]
39
40
        if _, found := node[letter]; !found {
41
         return false
42
43
       node = node[letter]
44
45
     return true
```