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

Prompt Scratchpad Our Solution(s) Video Explanation Run C

Solution 1

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Video Explanation Run Code Your Solutions Run Code

Custom Output

Raw Output

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
    class Program {
        class TrieNode {
           var children: [String: Any] = [:]
        class SuffixTrie {
 8
 9
            var root = TrieNode()
            let endSymbol = "*"
10
11
12
            init(string: String) {
13
                populateSuffixTrieFrom(string: string)
14
15
            // O(n^2) time | O(n^2) space
16
17
            func populateSuffixTrieFrom(string: String) {
18
                for i in 0 ...< string.count {</pre>
                    insertSubstringStartingAt(index: i, string: string, root: root)
19
20
21
22
23
            func insertSubstringStartingAt(index: Int, string: String, root: TrieNode) {
24
                var node = root
25
                for j in index ..< string.count {</pre>
26
27
                    let jStringIndex = string.index(string.startIndex, offsetBy: j)
28
                    let jthCharacter = String(string[jStringIndex])
29
30
                    if !node.children.keys.contains(jthCharacter) {
31
                        node.children[jthCharacter] = TrieNode()
32
33
                    let nextNode = node.children[jthCharacter] as! TrieNode
34
35
                    node = nextNode
36
37
38
                node.children[endSymbol] = true
39
40
41
            // O(m) time | O(1) space
42
            func contains(string: String) -> Bool {
43
                var node = root
44
45
                for character in string \{
                    let stringifiedCharacter = String(character)
46
47
48
                    if !node.children.keys.contains(stringifiedCharacter) {
49
                        return false
50
51
                    let nextNode = node.children[stringifiedCharacter] as! TrieNode
52
53
                    node = nextNode
54
55
56
                let reachedTheEnd = node.children[endSymbol] != nil
57
                return reachedTheEnd
58
59
60 }
```

```
Solution 2
 Solution 1
                              Solution 3
 1 class Program {
        // Do not edit the class below except for the
        // populateSuffixTrieFrom and contains methods.
        // Feel free to add new properties and methods
        // to the class.
        class TrieNode {
            var children: [String: Any] = [:]
        class SuffixTrie {
10
11
            var root = TrieNode()
            let endSymbol = "*"
12
13
14
            init(string: String) {
                populateSuffixTrieFrom(string: string)
15
16
            func populateSuffixTrieFrom(string: String) {
18
19
                \ensuremath{//} Write your code here.
20
21
22
            func contains(string: String) -> Bool {
23
               // Write your code here.
24
                return false
25
26
27 }
```

Run or submit code when you're ready.

Submit Code