30

31

33

contains(string) {

let node = this.root;

for (const letter of string) {

if (!(letter in node)) return false;

14рх

Your Solutions

Solution 1 Solution 2

Run Code

Our Solution(s) Run Code

```
Solution 1 Solution 2
                          Solution 3
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   // O(b^2 + ns) time | O(b^2 + n) space
 4 function multiStringSearch(bigString, smallStrings) {
     const modifiedSuffixTrie = new ModifiedSuffixTrie(bigString);
     return smallStrings.map(string => modifiedSuffixTrie.contains(strin)
 7
9
   class ModifiedSuffixTrie {
10
     constructor(string) {
11
       this.root = {};
12
       this.populateModifiedSuffixTrieFrom(string);
13
14
15
     populateModifiedSuffixTrieFrom(string) {
16
       for (let i = 0; i < string.length; i++) {</pre>
17
          this.insertSubstringStartingAt(i, string);
18
19
     }
20
21
     insertSubstringStartingAt(i, string) {
22
        let node = this.root;
23
        for (let j = i; j < string.length; j++) {</pre>
24
         const letter = string[j];
         if (!(letter in node)) node[letter] = {};
26
         node = node[letter];
27
28
     }
29
```

```
function multiStringSearch(bigString, smallStrings) {
   // Write your code here.
}

// Do not edit the line below.
exports.multiStringSearch = multiStringSearch;
```

Solution 3

Run or submit code when you're ready.

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