AlgoExpert

Quad Layout

-++

12px

Sublime

Monokai

00:00:

Our Solution(s)

Run Code

Your Solutions

Run Code

```
Solution 1
```

53 54

```
// Copyright © 2020 AlgoExpert, LLC. All rights reserved.
    #include <unordered_map>
    using namespace std;
    class TrieNode {
      unordered_map<char, TrieNode *> children;
    class SuffixTrie {
12
    public:
      TrieNode *root;
13
14
      char endSymbol;
      SuffixTrie(string str) {
16
        this->root = new TrieNode();
        this->endSymbol = '*';
18
        this->populateSuffixTrieFrom(str);
20
      // O(n^2) time | O(n^2) space
      void populateSuffixTrieFrom(string str) {
        for (int i = 0; i < str.length(); i++) {</pre>
24
          this->insertSubstringStartingAt(i, str);
26
27
28
29
      void insertSubstringStartingAt(int i, string str) {
30
        TrieNode *node = this->root;
        for (int j = i; j < str.length(); j++) {
32
          char letter = str[j];
33
          if (node->children.find(letter) == node->children.end()) {
34
            TrieNode *newNode = new TrieNode();
35
            node->children.insert({letter, newNode});
36
          node = node->children[letter];
38
39
        node->children.insert({this->endSymbol, NULL});
40
41
42
      // O(m) time | O(1) space
43
      bool contains(string str) {
44
        TrieNode *node = this->root;
45
        for (char letter : str) {
46
          if (node->children.find(letter) == node->children.end()) {
47
            return false;
48
49
          node = node->children[letter];
50
        return node->children.find(this->endSymbol) != node->children.end();
```

Solution 1 Solution 2 Solution 3

```
#include <unordered_map>
    using namespace std;
    \ensuremath{//} Do not edit the class below except for the
    // Feel free to add new properties and methods
    // to the class.
    class TrieNode {
   public:
     unordered_map<char, TrieNode *> children;
10
13
    class SuffixTrie {
14
    public:
      TrieNode *root;
16
      char endSymbol;
      SuffixTrie(string str) {
       this->root = new TrieNode();
       this->endSymbol = '*';
20
       this->populateSuffixTrieFrom(str);
      void populateSuffixTrieFrom(string str) {
24
25
       // Write your code here.
26
27
28
      bool contains(string str) {
29
       // Write your code here.
30
       return false;
31
32
```

Custom Output Raw Output Submit Code

Run or submit code when you're ready.