AlgoExpert

Solution 1

**Quad Layout** 

JavaScript

14рх

Sublime

Solution 1 Solution 2

Monokai

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Our Solution(s)

```
Run Code
```

**Your Solutions** 

```
Run Code
```

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
3 // O(n + m) time | O(m) space
4 function knuthMorrisPrattAlgorithm(string, substring) {
    let pattern = buildPattern(substring);
     return doesMatch(string, substring, pattern);
7 }
9 function buildPattern(substring) {
10
     let pattern = new Array(substring.length).fill(-1);
11
     let j = 0;
12
     let i = 1;
13
     while (i < substring.length) {</pre>
       if (substring[i] === substring[j]) {
14
         pattern[i] = j;
16
        i++;
17
         j++;
       } else if (j > 0) {
18
19
         j = pattern[j - 1] + 1;
20
       } else {
21
         i++;
22
23
24
     return pattern;
25 }
26
27 function doesMatch(string, substring, pattern) {
28
     let i = 0;
29
30
     while (i + substring.length - j <= string.length) {</pre>
31
       if (string[i] === substring[j]) {
32
         if (j === substring.length - 1) return true;
33
          i++;
```

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```
1 function knuthMorrisPrattAlgorithm(string, substring) {
    // Write your code here.
3 }
5 // Do not edit the line below.
6 exports.knuthMorrisPrattAlgorithm = knuthMorrisPrattAlgorithm;
```

Solution 3

**Our Tests Custom Output** Submit Code

Run or submit code when you're ready.

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