

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 // O(n^2 + m) time | O(n + m) space
4 function patternMatcher(pattern, string) {
5   if (pattern.length > string.length) return [];
6   const newPattern = getNewPattern(pattern);
7   const didSwitch = newPattern[0] !== pattern[0];
8   const counts = {x: 0, y: 0};
9   const firstYPos = getCountsAndFirstYPos(newPattern, counts);
10  if (counts['y'] !== 0) {
11    for (let lenOfX = 1; lenOfX < string.length; lenOfX++) {
12      const lenOfY = (string.length - lenOfX * counts['x']) / counts['y'];
13      if (lenOfY <= 0 || lenOfY % 1 !== 0) continue;
14      const yIdx = firstYPos * lenOfX;
15      const x = string.slice(0, lenOfX);
16      const y = string.slice(yIdx, yIdx + lenOfY);
17      const potentialMatch = newPattern.map(char => (char === 'x' ? x
18      if (string === potentialMatch.join('')) {
19        return !didSwitch ? [x, y] : [y, x];
20      }
21    }
22  } else {
23    let lenOfX = string.length / counts['x'];
24    if (lenOfX % 1 === 0) {
25      const x = string.slice(0, lenOfX);
26      const potentialMatch = newPattern.map(char => (char === 'x' ? x
27      if (string === potentialMatch.join('')) {
28        return !didSwitch ? [x, ''] : ['', x];
29      }
30    }
31  }
32  return [];
33 }
```

Solution 1 Solution 2 Solution 3

```
1 function patternMatcher(pattern, string) {
2   // Write your code here.
3 }
4
5 // Do not edit the line below.
6 exports.patternMatcher = patternMatcher;
7
```

Our Tests

Custom Output

Submit Code

```
100 # Test Case 40 - Success (1/1)
101 # Test: expect_program_outputMatches("good", "good") (1/1: No diff report)
102 #>
103
104 # Test Case 41 - Success (1/1)
105 # Test: expect_program_outputMatches("good", "good") (1/1: No diff report)
106 #>
107
108 # Test Case 42 - Success (1/1)
109 # Test: expect_program_outputMatches("input", "expectedOutput")
110 #>
111
112 # Test Case 43 - Success (1/1)
113 # Test: expect_program_outputMatches("input", "expectedOutput")
114 #>
```

Run or submit code when you're ready.