AlgoExpert Quad Layout Python 14px Sul

Our Solution(s) Run Code

Solution 1

```
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# O(n^2 + m) time | O(n + m) space
def patternMatcher(pattern, string):
    if len(pattern) > len(string):
        return []
    newPattern = getNewPattern(pattern)
    didSwitch = newPattern[0] != patter
    counts = {"x": 0, "y": 0}
    firstYPos = getCountsAndFirstYPos(ne
    if counts["y"] != 0:
        for lenOfX in range(1, len(stri
            lenOfY = (len(string) - len(
            if lenOfY <= 0 or lenOfY % 1
                continue
            lenOfY = int(lenOfY)
            yIdx = firstYPos * lenOfX
            x = string[:lenOfX]
            y = string[yIdx : yIdx + le
            potentialMatch = map(lambda
            if string == "".join(potent
                return [x, y] if not di
    else:
        lenOfX = len(string) / counts["
        if lenOfX % 1 == 0:
            lenOfX = int(lenOfX)
            x = string[:lenOfX]
            potentialMatch = map(lambda
            if string == "".join(potent
                return [x, ""] if not d
    return []


def getNewPattern(pattern):
    patternLetters = list(pattern)
    if pattern[0] == "x":
        return patternLetters
    else:
        return list(map(lambda char: "x


```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```
# def patternMatcher(pattern, string):
#     # Write your code here.

#     pass
import math

def patternMatcher(pattern, string):
    patternLen = len(pattern)
    stringLen = len(string)
    patternChanged = False
    result = []
    if (pattern[0] != "x"):
        pattern = correctPattern(patter

    x_count = pattern.count("x")
    y_count = pattern.count("y")
    x_len_min = 1
    x_len_max = math.ceil((stringLen -

    for i in range (x_len_min , x_len_m
        x_len = i
        y_len = int((stringLen - x_coun

        x = string[:x_len]
```

```
def getCountsAndFirstYPos(pattern, count
    firstYPos = None
    for i, char in enumerate(pattern):
        counts[char] += 1
        if char == "y" and firstYPos is
            firstYPos = i
    return firstYPos

```

Tests

Test Case 1

Test Case 2

Test Case 3

Test Case 4

Test Case 5

Test Case 6

Custom Output Submit Code

✗ Test Case 5 failed.

✓ Test Case 6 passed!

✗ Test Case 7 failed.

✗ Test Case 8 failed.

✓ Test Case 9 passed!

✓ Test Case 10 passed!

✗ Test Case 11 failed.

✗ Test Case 12 failed.