AlgoExpert

Quad Layout

Python

14рх

Sublime

Monokai

00:00:

Run Code

Our Solution(s)

increaseCharCount(rightChar, substringCharCounts)

if substringCharCounts[rightChar] == targetCharCounts[rightCha

```
Run Code
```

Your Solutions

Solution 1 Solution 2 Solution 3

```
Solution 1
 1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
                                                                                1 def smallestSubstringContaining(bigString, smallString):
   # O(b + s) time | O(b + s) space - where b is the length of the big
                                                                                       pass
   \mbox{\tt\#} input string and s is the length of the small input string
   def smallestSubstringContaining(bigString, smallString):
        targetCharCounts = getCharCounts(smallString)
        substringBounds = getSubstringBounds(bigString, targetCharCounts)
        return getStringFromBounds(bigString, substringBounds)
 9
10
   def getCharCounts(string):
11
        charCounts = {}
12
13
        for char in string:
14
          increaseCharCount(char, charCounts)
15
        return charCounts
16
17
18 def getSubstringBounds(string, targetCharCounts):
        substringBounds = [0, float("inf")]
19
20
        substringCharCounts = {}
        numUniqueChars = len(targetCharCounts.keys())
21
        numUniqueCharsDone = 0
        leftIdx = 0
        rightIdx = 0
        \mbox{\tt\#} Move the rightIdx to the right in the string until you've counte
26
        # all of the target characters enough times.
27
        while rightIdx < len(string):</pre>
           rightChar = string[rightIdx]
28
29
            if rightChar not in targetCharCounts:
30
                rightIdx += 1
31
```

Write your code here.

33



Run or submit code when you're ready.