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Grokking the Coding Interview: Patterns for Coding Questions

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Problem Challenge 2

We'll cover the following

• String Anagrams (hard)

^

• Try it yourself

String Anagrams (hard)

Given a string and a pattern, find all anagrams of the pattern in the given string.

Anagram is actually a **Permutation** of a string. For example, "abc" has the following six anagrams:

- 1. abc
- 2. acb
- 3. bac
- 4. bca
- 5. cab
- 6. cba

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Write a function to return a list of starting indices of the anagrams of the pattern in the given string.

Example 1:

```
Input: String="ppqp", Pattern="pq"
Output: [1, 2]
Explanation: The two anagrams of the pattern in the given string are "pq" and "qp".
```

Example 2:

```
Input: String="abbcabc", Pattern="abc"
Output: [2, 3, 4]
Explanation: The three anagrams of the pattern in the given string are "bca", "ca b", and "abc".
```

Try it yourself

Try solving this question here:

```
JS JS
👙 Java
            Python3
                                        G C++
            return false;
                                                                                           Ψ,
10
11
12
13
        return true;
14
      public static List<Integer> findStringAnagrams(St
15
16
        List<Integer> resultIndices = new ArrayList<Int
        // TODO: Write your code here
17
        int c1[] = new int[26];
18
        int c2[] = new int[26];
19
```

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```
20
         int n = pattern.length();
        for(int i=0;i<n;i++)</pre>
21
22
23
           c1[pattern.charAt(i)-'a']++;
24
        int m = str.length(),start=0;
25
        for(int i=0;i<m;i++)</pre>
26
27
28
           c2[str.charAt(i)-'a']++;
           if(i>=n-1)
29
30
31
             if(compare(c1,c2))
32
33
               resultIndices.add(start);
34
             c2[str.charAt(start)-'a']--;
35
             start++;
36
37
38
39
        return resultIndices;
```

Save * Reset

et

X

Show Results

Test

Show Console

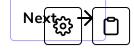
2 of 2 Tests Passed

Result	Input	Expected Output	Actual Output	Reason
~	findStringAnagrams(ppqp, pq)	[1, 2]	[1, 2]	Succeeded
✓	<pre>findStringAnagrams(abbcabc, abc)</pre>	[2, 3, 4]	[2, 3, 4]	Succeeded

11.247s



Solution Review: Problem Challenge 1



Solution Review: Problem Challenge 2



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