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

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", "cab", and "abc".
```

Try it yourself

Try solving this question here:

☕ Java	🐍 Python3	JS JS	⊙ C++

```java
10          return false;
11        }
12      }
13      return true;
14    }
15    public static List<Integer> findStringAnagrams(St
16      List<Integer> resultIndices = new ArrayList<Int
17      // TODO: Write your code here
18      int c1[] = new int[26];
19      int c2[] = new int[26];
```

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

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Test

Save *   **Reset**   ⛶

Show Results   **Show Console**   ✕

📋 **2 of 2 Tests Passed**

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

11.247s

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