3: Leetcode 567: Permutation in String

⇒ https://leetcode.com/problems/permutation-in-string/description/

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Solved ♥

Medium ♥ Topics ♠ Companies ♥ Hint

Given two strings s1 and s2, return true if s2 contains a permutation of s1, or false otherwise.

In other words, return true if one of s1's permutations is the substring of s2.

Example 1:

Input: s1 = "ab", s2 = "eidbaooo"
Output: true
Explanation: s2 contains one permutation of s1 ("ba").

Example 2:

Input: s1 = "ab", s2 = "eidboaoo"
Output: false
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A: PYTHON doubts:

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• getting ascii value, A = 65, a = 97, $1 = 49 \Rightarrow ord('a') = 97$

B: Code -

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class Solution:
    def checkInclusion(self, s1: str, s2: str) -> bool:
        n1 = len(s1)
        n2 = len(s2)

    if n1 > n2:
        return False

    s1Count = [0] * 26
    s2Count = [0] * 26

    for i in range(n1):
        s1Count[ord(s1[i]) - ord('a')] += 1
        s2Count[ord(s2[i]) - ord('a')] += 1
```

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if s1Count == s2Count:
    return True

for i in range(n1,n2):
    s2Count[ord(s2[i]) - ord('a')] += 1
    s2Count[ord(s2[i - n1]) - ord('a')] -= 1
    if s1Count == s2Count:
        return True

return False
```

C: Written notes

