242. Valid Anagram

https://leetcode.com/problems/valid-anagram/description/ Given two strings s and t, return true if t is an anagram of S , and false otherwise. Example 1: **Input:** s = "anagram", t = "nagaram" Output: true Example 2: Input: s = "rat", t = "car" Output: false Constraints: • 1 <= s.length, t.length <= 5 * 104 • s and t consist of lowercase English letters. Follow up: What if the inputs contain Unicode characters? How would you adapt

class Solution:
 def isAnagram(self, s: str, t: str) -> bool:

your solution to such a case?

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```
# If lengths are different, they cannot be anagrams
if len(s) != len(t):
    return False

# Use a dictionary to count character frequencies in bot
char_count = {}

for char in s:
    char_count[char] = char_count.get(char, 0) + 1

for char in t:
    if char not in char_count:
        return False
    char_count[char] -= 1
    if char_count[char] < 0:
        return False

return all(count == 0 for count in char_count.values())</pre>
```

The following code checks if the length of each string matches first before comparing the character frequency.

We use char_count to count characters for keys and values for their frequeuncies

using

```
char_count[char] = char_count.get(char, 0) + 1
```

We fetch a key to retrieve its count, otherwise if it doesn't exist we increase the count of the character

Important to note that **.get()** is used to return the value of the item of the specified key

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After iterating through string s

It will check for characters in string t

For every character it see's it will decrement the count as it goes through the string

So it should return a 0 if its an anagram

This code is O(n) both time complexity and space complexity as it linearly scales with the size of the string.

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