

# Problem 3365: Rearrange K Substrings to Form Target String

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 56.48%

**Paid Only:** No

**Tags:** Hash Table, String, Sorting

## Problem Description

You are given two strings `s` and `t`, both of which are anagrams of each other, and an integer `k`.

Your task is to determine whether it is possible to split the string `s` into `k` equal-sized substrings, rearrange the substrings, and concatenate them in any order to create a new string that matches the given string `t`.

Return `true` if this is possible, otherwise, return `false`.

An **anagram** is a word or phrase formed by rearranging the letters of a different word or phrase, using all the original letters exactly once.

A **substring** is a contiguous **non-empty** sequence of characters within a string.

**Example 1:**

**Input:** s = "abcd", t = "cdab", k = 2

**Output:** true

**Explanation:**

\* Split `s` into 2 substrings of length 2: `["ab", "cd"]`. \* Rearranging these substrings as `["cd", "ab"]`, and then concatenating them results in `cdab`, which matches `t`.

**\*\*Example 2:\*\***

**\*\*Input:\*\*** s = "aabbcc", t = "bbaacc", k = 3

**\*\*Output:\*\*** true

**\*\*Explanation:\*\***

\* Split `s` into 3 substrings of length 2: `["aa", "bb", "cc"]`. \* Rearranging these substrings as `["bb", "aa", "cc"]`, and then concatenating them results in `bbaacc`, which matches `t`.

**\*\*Example 3:\*\***

**\*\*Input:\*\*** s = "aabbcc", t = "bbaacc", k = 2

**\*\*Output:\*\*** false

**\*\*Explanation:\*\***

\* Split `s` into 2 substrings of length 3: `["aab", "bcc"]`. \* These substrings cannot be rearranged to form `t = "bbaacc"`, so the output is `false`.

**\*\*Constraints:\*\***

\* `1 <= s.length == t.length <= 2 \* 105` \* `1 <= k <= s.length` \* `s.length` is divisible by `k`. \* `s` and `t` consist only of lowercase English letters. \* The input is generated such that `s` and `t` are anagrams of each other.

## Code Snippets

**C++:**

```
class Solution {
public:
    bool isPossibleToRearrange(string s, string t, int k) {
        }
};
```

**Java:**

```
class Solution {  
    public boolean isPossibleToRearrange(String s, String t, int k) {  
        }  
    }
```

**Python3:**

```
class Solution:  
    def isPossibleToRearrange(self, s: str, t: str, k: int) -> bool:
```