**5 kyu**

**Scramblies**

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C#

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Complete the function scramble(str1, str2) that returns true if a portion of str1 characters can be rearranged to match str2, otherwise returns false.

**Notes:**

* Only lower case letters will be used (a-z). No punctuation or digits will be included.
* Performance needs to be considered

Examples

scramble('rkqodlw', 'world') ==> True

scramble('cedewaraaossoqqyt', 'codewars') ==> True

scramble('katas', 'steak') ==> False

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using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp2

{

class Program

{

public static bool Scramble(string str1, string str2)

{

Dictionary<char, int> da = new Dictionary<char, int>();

foreach(char ch in str1)

{

if(da.ContainsKey(ch)) da[ch]++;

else da[ch] = 1;

}

Dictionary<char, int> db = new Dictionary<char, int>();

foreach (char ch in str2)

{

if (db.ContainsKey(ch)) db[ch]++;

else db[ch] = 1;

}

foreach(KeyValuePair<char, int> kvp in db)

{

if(!(da.ContainsKey(kvp.Key) && (da[kvp.Key] >= kvp.Value)))

{

return false;

}

}

return true;

}

public static bool Scramble(string str1, string str2)

{

bool canScramble = true;

int[] charCount = new int['z' - 'a'];

foreach (var c in str1)

{

charCount[c - 'a']++;

}

foreach (var c in str2)

{

charCount[c - 'a']--;

if (charCount[c - 'a'] < 0)

{

canScramble = false;

break;

}

}

return canScramble;

}

static void Main(string[] args)

{

Console.WriteLine( Scramble("commas", "commas"));

Console.WriteLine(Scramble("cedewaraaossoqqyt", "codewars")); // ==> True

Console.WriteLine(Scramble("scriptjavx", "javascript"));

//, true);

Console.ReadLine();

}

}

}

#include<string>

#include <stdio.h>

#include <iostream>

using namespace std;

bool scramble(const std::string& s1, const std::string& s2){

//your code here

bool canScramble = true;

int charCount['z' - 'a'];

//for(char c : str1)

for(int i =0; i<26; i++) {

charCount[i]=0;

}

for(int i =0; i<s1.length(); i++)

{

charCount[s1[i] - 'a']++;

}

//for(char c : str2)

for(int i =0; i<s2.length(); i++ )

{

charCount[s2[i] - 'a']--;

if (charCount[s2[i] - 'a'] < 0)

{

canScramble = false;

break;

}

}

return canScramble;

}

int main() {

cout << (scramble("commas", "commas")) << endl;

cout << (scramble("cedewaraaossoqqyt", "codewars")) << endl; // ==> True

cout << (scramble("scriptjavx", "javascript")) << endl;

return 0;

}