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LeetCode Explore Problems Mock Contest Discuss

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Submissions

1540. Can Convert String in K Moves

Medium ☐ 150 ☐ 117 ☐ Add to List ☐ Share

Given two strings s and t, your goal is to convert s into t in k moves or less.

During the i^{th} (1 <= i <= k) move you can:

- Choose any index j (1-indexed) from s , such that 1 <= j <= s.length and j has not been chosen in any previous move, and shift the character at that index i times.
- Do nothing.

Shifting a character means replacing it by the next letter in the alphabet (wrapping around so that 'z' becomes 'a'). Shifting a character by i means applying the shift operations i times.

Remember that any index j can be picked at most once.

Return true if it's possible to convert s into t in no more than k moves, otherwise return false.

Example 1:

Input: s = "input", t = "ouput", k = 9

Output: true

Explanation: In the 6th move, we shift 'i' 6 times to get 'o'. And in the 7th move we shift 'n' to get 'u'.

Example 2:

Input: s = "abc", t = "bcd", k = 10

Output: false

Explanation: We need to shift each character in s one time to convert it into t. We can shift 'a' to 'b' during the 1st move. However, there is no way to

> ➢ Pick One < Prev | 1540/1611 | Next >

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i Java

  Autocomplete

     class Solution {
          public boolean canConvertString(String s, String t, int k) {
2 🔻
              if(s.length() != t.length()){
3 ▼
```

return false: 7 ▼ for(int i=0;i<s.length();i++){</pre>

int val = (t.charAt(i)+26 - s.charAt(i))%26; 8 if(a[val] != 0){ 9 ▼ val = a[val] + 26;10 11 a[val%26] = val;12

 $if(val > k){$ 13 ▼ 14 return false: 15 16

17 return true; 18 19

Testcase Run Code Result Debugger 🔒

How to create a testcase -

Accepted Runtime: 0 ms

"input" Your input "ouput"

true Output

true Expected

Console A

▶ Run Code

Submit

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