

161. One Edit Distance

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Given two strings `s` and `t`, return `true` if they are both one edit distance apart, otherwise return `false`.

A string `s` is said to be one distance apart from a string `t` if you can:

- Insert **exactly one** character into `s` to get `t`.
- Delete **exactly one** character from `s` to get `t`.
- Replace **exactly one** character of `s` with a **different character** to get `t`.

Example 1:

Input: s = "ab", t = "acb"
Output: true
Explanation: We can insert 'c' into s to get t.

Example 2:

Input: s = "", t = ""
Output: false
Explanation: We cannot get t from s by only one step.

Example 3:

Input: s = "a", t = ""
Output: true

Example 4:

Input: s = "", t = "A"
Output: true

Constraints:

- 0 <= s.length <= 10⁴
- 0 <= t.length <= 10⁴
- s and t consist of lower-case letters, upper-case letters **and/or** digits.

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```
1 class Solution {
2     public boolean isOneEditDistance(String s, String t) {
3         int ns = s.length();
4         int nt = t.length();
5
6         // Ensure that s is shorter than t.
7         if (ns > nt)
8             return isOneEditDistance(t, s);
9
10        // The strings are NOT one edit away distance
11        // if the length diff is more than 1.
12        if (nt - ns > 1)
13            return false;
14
15        for (int i = 0; i < ns; i++)
16            if (s.charAt(i) != t.charAt(i))
17                // if strings have the same length
18                if (ns == nt)
19                    return s.substring(i + 1).equals(t.substring(i + 1));
20                // if strings have different lengths
21                else
22                    return s.substring(i).equals(t.substring(i + 1));
23
24        // If there is no diffs on ns distance
25        // the strings are one edit away only if
26        // t has one more character.
27        return (ns + 1 == nt);
28    }
29 }
```