

# Problem 3460: Longest Common Prefix After at Most One Removal

## Problem Information

Difficulty: **Medium**

Acceptance Rate: 67.65%

Paid Only: Yes

Tags: Two Pointers, String

## Problem Description

You are given two strings `s` and `t`.

Return the **length** of the **longest common prefix** between `s` and `t` after removing **at most** one character from `s`.

**Note:** `s` can be left without any removal.

**Example 1:**

**Input:** `s = "madxa", t = "madam"`

**Output:** 4

**Explanation:**

Removing `s[3]` from `s` results in `"mada"`, which has a longest common prefix of length 4 with `t`.

**Example 2:**

**Input:** `s = "leetcode", t = "eetcode"`

**Output:** 7

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

Removing `s[0]` from `s` results in `"eetcode"`, which matches `t`.

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

**\*\*Input:\*\*** s = "one", t = "one"

**\*\*Output:\*\*** 3

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

No removal is needed.

**\*\*Example 4:\*\***

**\*\*Input:\*\*** s = "a", t = "b"

**\*\*Output:\*\*** 0

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

`s` and `t` cannot have a common prefix.

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

\* `1` <= s.length <= 105 \* `1` <= t.length <= 105 \* `s` and `t` contain only lowercase English letters.

## Code Snippets

**C++:**

```
class Solution {
public:
    int longestCommonPrefix(string s, string t) {

    }
};
```

**Java:**

```
class Solution {  
    public int longestCommonPrefix(String s, String t) {  
  
    }  
}
```

**Python3:**

```
class Solution:  
    def longestCommonPrefix(self, s: str, t: str) -> int:
```