

Problem 2000: Reverse Prefix of Word

Problem Information

Difficulty: Easy

Acceptance Rate: 86.46%

Paid Only: No

Tags: Two Pointers, String, Stack

Problem Description

Given a **0-indexed** string `word` and a character `ch`, **reverse** the segment of `word` that starts at index `0` and ends at the index of the **first occurrence** of `ch` (**inclusive**). If the character `ch` does not exist in `word`, do nothing.

* For example, if `word = "abcdefd"` and `ch = "d"`, then you should **reverse** the segment that starts at `0` and ends at `3` (**inclusive**). The resulting string will be `"_dcba_efd"`.

Return `_`the resulting string.

Example 1:

Input: `word = "_abcd_efd"`, `ch = "d"` **Output:** `"_dcba_efd"` **Explanation:** The first occurrence of `"d"` is at index 3. Reverse the part of word from 0 to 3 (inclusive), the resulting string is `"dcbaefd"`.

Example 2:

Input: `word = "_xyxz_xe"`, `ch = "z"` **Output:** `"_zxyx_xe"` **Explanation:** The first and only occurrence of `"z"` is at index 3. Reverse the part of word from 0 to 3 (inclusive), the resulting string is `"zxyxe"`.

Example 3:

Input: `word = "abcd"`, `ch = "z"` **Output:** `"abcd"` **Explanation:** `"z"` does not exist in word. You should not do any reverse operation, the resulting string is `"abcd"`.

****Constraints:****

* `1` <= word.length <= 250` * `word` consists of lowercase English letters. * `ch` is a lowercase English letter.

Code Snippets

C++:

```
class Solution {  
public:  
    string reversePrefix(string word, char ch) {  
  
    }  
};
```

Java:

```
class Solution {  
    public String reversePrefix(String word, char ch) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def reversePrefix(self, word: str, ch: str) -> str:
```