

Problem 777: Swap Adjacent in LR String

Problem Information

Difficulty: Medium

Acceptance Rate: 37.74%

Paid Only: No

Tags: Two Pointers, String

Problem Description

In a string composed of 'L', 'R', and 'X' characters, like "RXXLRXXRL", a move consists of either replacing one occurrence of "XL" with "LX", or replacing one occurrence of "RX" with "XR". Given the starting string `start` and the ending string `result`, return `True` if and only if there exists a sequence of moves to transform `start` to `result`.

Example 1:

Input: start = "RXXLRXXRL", result = "XRLXXRRLX" **Output:** true **Explanation:** We can transform start to result following these steps: RXXLRXXRL -> XRXXLRXXRL -> XRLXXRXRL -> XRLXXRRLX

Example 2:

Input: start = "X", result = "L" **Output:** false

Constraints:

* 1 <= start.length <= 104 * start.length == result.length * Both `start` and `result` will only consist of characters in 'L', 'R', and 'X'.

Code Snippets

C++:

```
class Solution {  
public:  
    bool canTransform(string start, string result) {  
  
    }  
};
```

Java:

```
class Solution {  
    public boolean canTransform(String start, String result) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def canTransform(self, start: str, result: str) -> bool:
```