

# Problem 2337: Move Pieces to Obtain a String

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 56.76%

**Paid Only:** No

**Tags:** Two Pointers, String

## Problem Description

You are given two strings `start` and `target`, both of length `n`. Each string consists \*\*only\*\* of the characters 'L', 'R', and '\_'. where:

\* The characters 'L' and 'R' represent pieces, where a piece 'L' can move to the \*\*left\*\* only if there is a \*\*blank\*\* space directly to its left, and a piece 'R' can move to the \*\*right\*\* only if there is a \*\*blank\*\* space directly to its right. \* The character '\_' represents a blank space that can be occupied by \*\*any\*\* of the 'L' or 'R' pieces.

Return `true` \_if it is possible to obtain the string\_ `target` \_by moving the pieces of the string\_ `start` \_\*\*any\*\* number of times\_. Otherwise, return `false`.

**Example 1:**

**Input:** start = "\_L\_\_R\_\_R\_", target = "L\_\_\_\_\_RR" **Output:** true **Explanation:** We can obtain the string target from start by doing the following moves: - Move the first piece one step to the left, start becomes equal to "\*\*\*L\*\* \_\_R\_\_R\_". - Move the last piece one step to the right, start becomes equal to "L\_\_\_R\_\_ \*\*R\*\* ". - Move the second piece three steps to the right, start becomes equal to "L\_\_\_\_\_ \*\*R\*\* R". Since it is possible to get the string target from start, we return true.

**Example 2:**

**Input:** start = "R\_L\_", target = "\_\_LR" **Output:** false **Explanation:** The 'R' piece in the string start can move one step to the right to obtain "\_\*\*R\*\* L\_". After that, no pieces can move anymore, so it is impossible to obtain the string target from start.

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

**\*\*Input:\*\*** start = "\_R", target = "R\_" **\*\*Output:\*\*** false **\*\*Explanation:\*\*** The piece in the string start can move only to the right, so it is impossible to obtain the string target from start.

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

\* `n == start.length == target.length` \* `1 <= n <= 105` \* `start` and `target` consist of the characters 'L', 'R', and '\_'.

## Code Snippets

**C++:**

```
class Solution {  
public:  
    bool canChange(string start, string target) {  
  
    }  
};
```

**Java:**

```
class Solution {  
public boolean canChange(String start, String target) {  
  
}  
}
```

**Python3:**

```
class Solution:  
    def canChange(self, start: str, target: str) -> bool:
```