Problem 583: Delete Operation for Two Strings

Problem Information

Difficulty: Medium
Acceptance Rate: 64.82%
Paid Only: No
Tags: String, Dynamic Programming

Problem Description

Given two strings `word1` and `word2`, return _the minimum number of**steps** required to make_ `word1` _and_ `word2` _the same_.

In one **step** , you can delete exactly one character in either string.

Example 1:

Input: word1 = "sea", word2 = "eat" **Output:** 2 **Explanation:** You need one step to make "sea" to "ea" and another step to make "eat" to "ea".

Example 2:

Input: word1 = "leetcode", word2 = "etco" **Output:** 4

Constraints:

* `1 <= word1.length, word2.length <= 500` * `word1` and `word2` consist of only lowercase English letters.

Code Snippets

C++:

```
class Solution {
public:
```

```
    int minDistance(string word1, string word2) {


    }
};
```

Java:

```java
class Solution {
    public int minDistance(String word1, String word2) {


    }
}
```

Python3:

```python
class Solution:
    def minDistance(self, word1: str, word2: str) -> int:
```