

Description

Solution

Discuss (999+)

Submissions

583. Delete Operation for Two Strings

Medium

3104

45

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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.

Accepted 125,629

Submissions 221,419

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Yes

No

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```
1 class Solution {
2     public int minDistance(String word1, String word2) {
3
4         int firstStringLength = word1.length();
5         int secondStringLength = word2.length();
6         int[][] dp = new int[firstStringLength + 1][secondStringLength + 1];
7
8         for(int i = 1 ; i <= firstStringLength; i++){
9             for(int j = 1 ; j <= secondStringLength; j++){
10                 if(word1.charAt(i - 1) == word2.charAt(j - 1)){
11                     dp[i][j] = 1 + dp[i - 1][j - 1];
12                 }else{
13                     dp[i][j] = Math.max(dp[i - 1][j], dp[i][j - 1]);
14                 }
15             }
16         }
17
18         return firstStringLength + secondStringLength - 2 * dp[firstStringLength][secondStringLength];
19     }
20 }
```

Your previous code was restored from your local storage. [Reset to default](#)

Testcase

Run Code Result

Debugger

Accepted

Runtime: 0 ms

Your input

"sea"
"eat"

Output

2

Diff

Expected

2