class Solution:

def minDistance(self, word1: str, word2: str) -> int:

r = len(word1)+1

c = len(word2)+1

if word1 == word2:

return 0

if r == 1:

return c-1

if c == 1:

return r-1

dp = [[0]\*c for \_ in range(r)]

for i in range(1, r):

dp[i][0] = i

for i in range(1, c):

dp[0][i] = i

for i in range(1,r):

for j in range(1,c):

if word1[i-1] == word2[j-1]:

dp[i][j] = dp[i-1][j-1]

else:

dp[i][j] = 1 + min(dp[i-1][j-1], dp[i-1][j], dp[i][j-1])

return dp[-1][-1]