Algorithm Find the minimum edit distance to convert str_1 to str_2

Ensure: Zero Based Indexing for the Matrix, One Based Index for the Strings

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1: function EDIT_DISTANCE(str_1, str_2)
   ▷ edit[i][j] denotes the edit distance of the first i characters of str_1 and the first j characters of str_2
2:     edit[i][0] ← i                          ∀i        ▷ Delete i characters
3:     edit[0][j] ← j                          ∀j        ▷ Insert j characters
4:     for i = 1 : str_1.len do
5:         for j = 1 : str_2.len do
6:             insert ← 1 + edit[i][j − 1]
7:             delete ← 1 + edit[i − 1][j]
8:             replace ← 1 + edit[i − 1][j − 1]
9:             match ← edit[i − 1][j − 1]
10:            if str_1[i] == str_2[j] then
11:                edit[i][j] ← match
12:            else
13:                edit[i][j] ← min(insert, delete, replace)
14:    return edit[str_1.len][str_2.len]
```