LCS =

```
if s1[idx1] == s2[idx2]:
    dp[i][j] = 1 + dp[i-1][j-1]
else:
    split_1 = 0 + dp[i-1][j]
    split_2 = 0 + dp[i][j-1]
    dp[i][j] = max(split_1, split_2)
```

Shortest Common Supersequence

Str 1 = a b a c Str 2 = c a b

	0	1	2	3
0	0	0	0	0
1	0	0	1	1
2	0	0	1	2
3	0	0	1	2 (i-1)
4	0	1	1 (j-1)	2

→ Length of Shortest Common Supersequence

= LCS = 2

= m = 4 , n = 3

→ m = 4 - 2 = 2 (remaining sequence)

n = 3 - 2 = 1

= m + n + LCS = 5

or

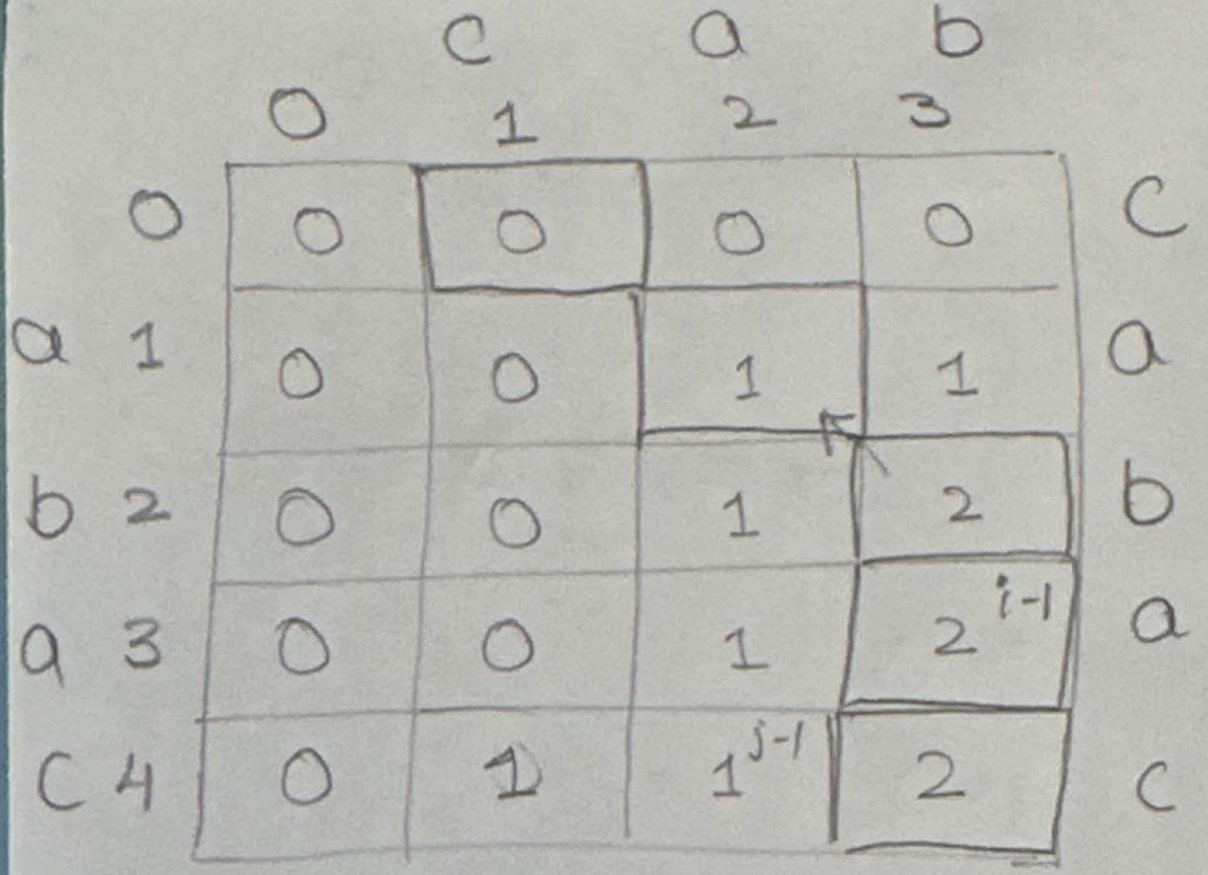
m = 4

n = 3

LCS = 2

Length = (4+3) - 2 = 5

```
if s1[i-1] == s2[j-1]:
    seq = s1[i-1]
    i -= 1
    j -= 1
else:
    if dp[i-1][j] > dp[i][j-1]
        seq = s1[i-1]
        i -= 1
    else  seq = s2[j-1]
          j -= 1
```



= cabac