

1) bcae~~f~~

2) ab~~a~~c~~d~~ae

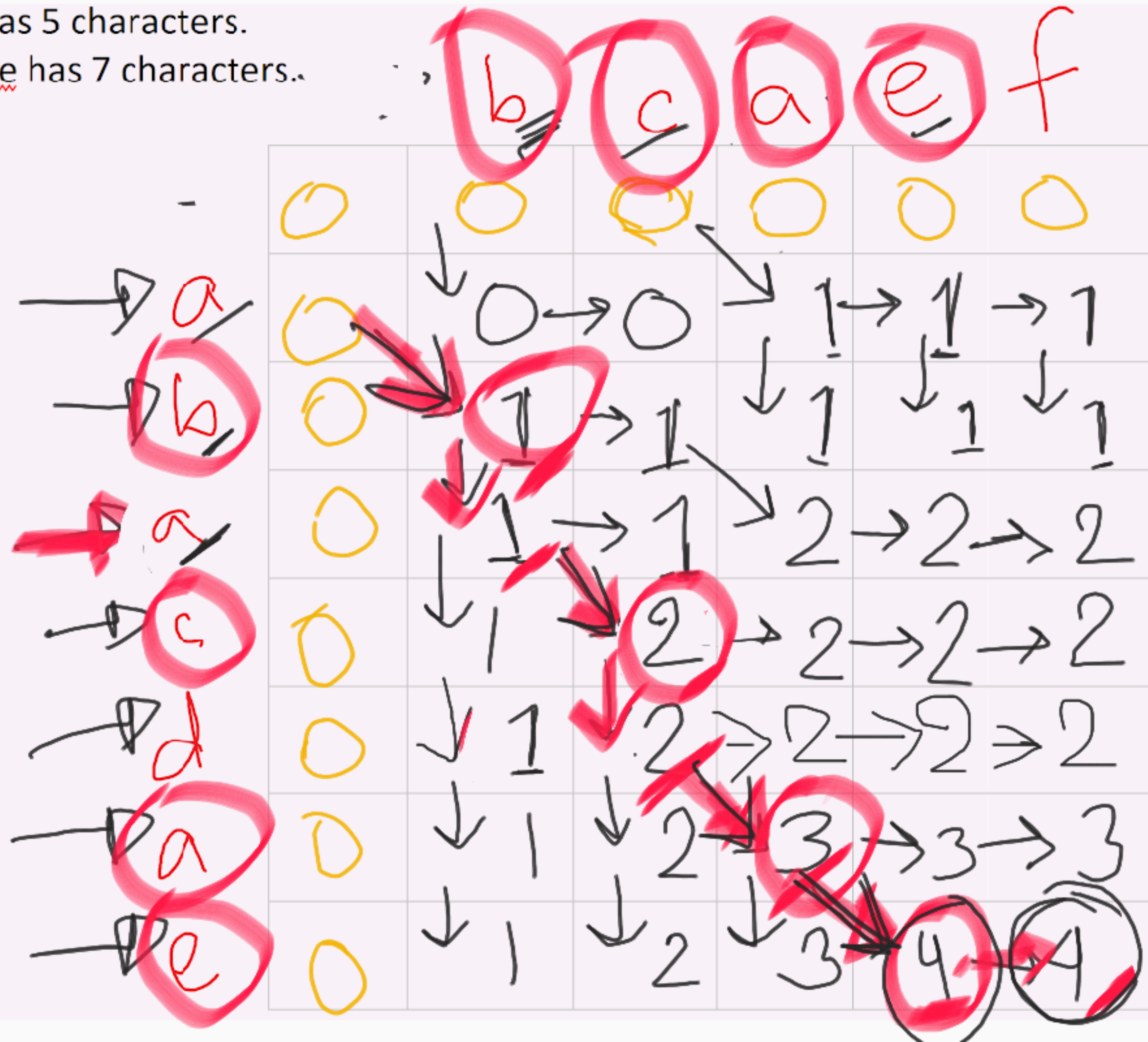
Subsequence looks at the common terms but it ignored the different terms in between

Another application of Dynamic Programming in CS

Longest Common Subsequence
"bcae"
//

Bcaef has 5 characters.

Abacdae has 7 characters..



1. Create a matrix with the length being of $[row+1][column+1]$ size

2. Populate the topmost row and leftmost column with 0s

LCS =
b c a e

1. Take input for 2 strings

2. Convert the two strings into TWO character arrays

3. Create a matrix with the size+1 of the character array size

4. If it matches, then we consider top-left value and increment it by 1.

If no match, then find the largest value of top OR left.

