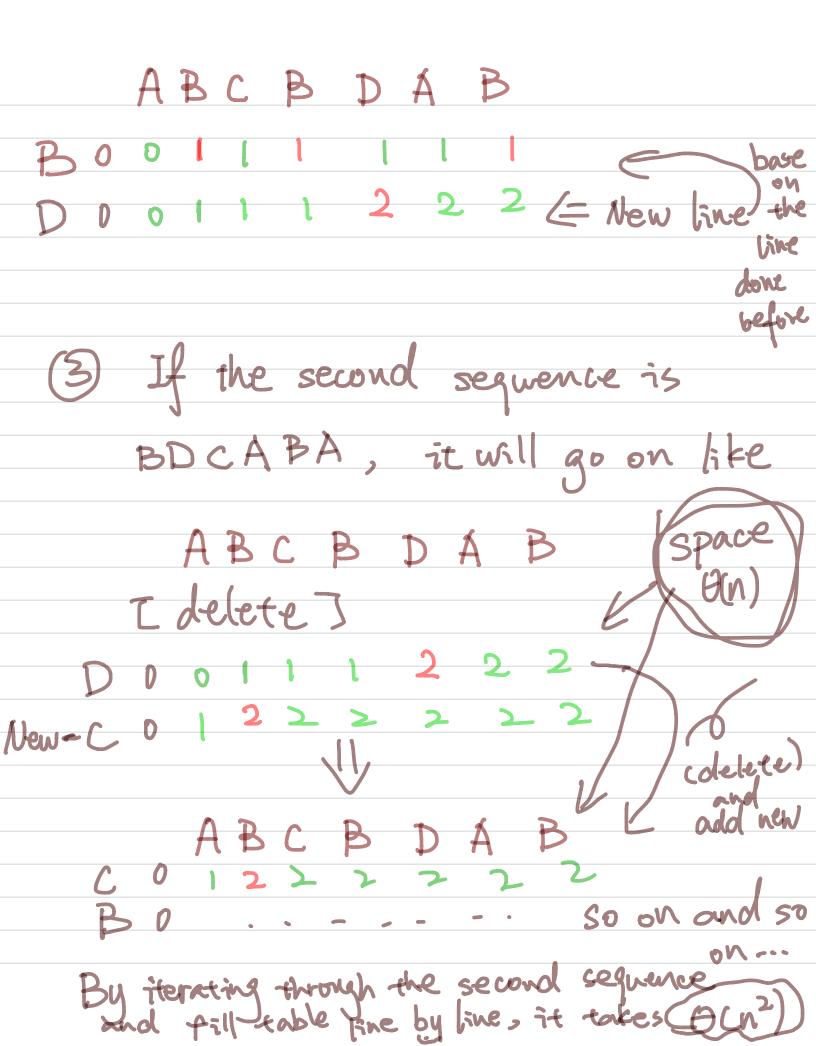
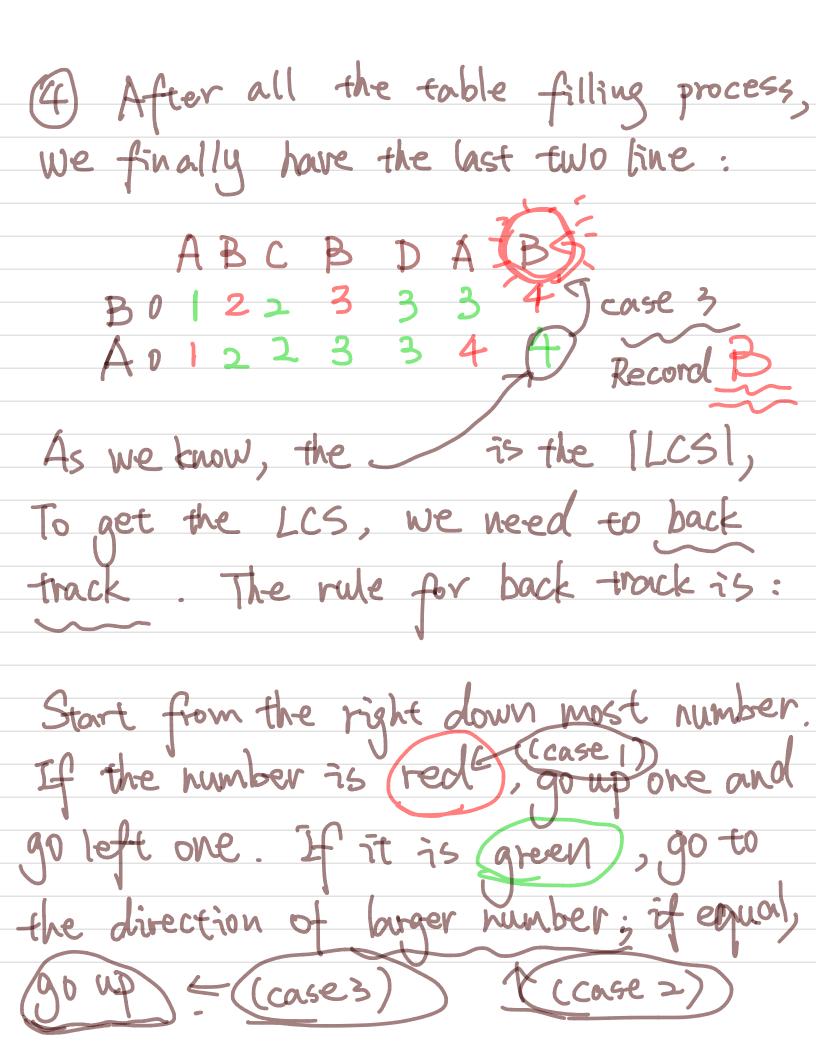
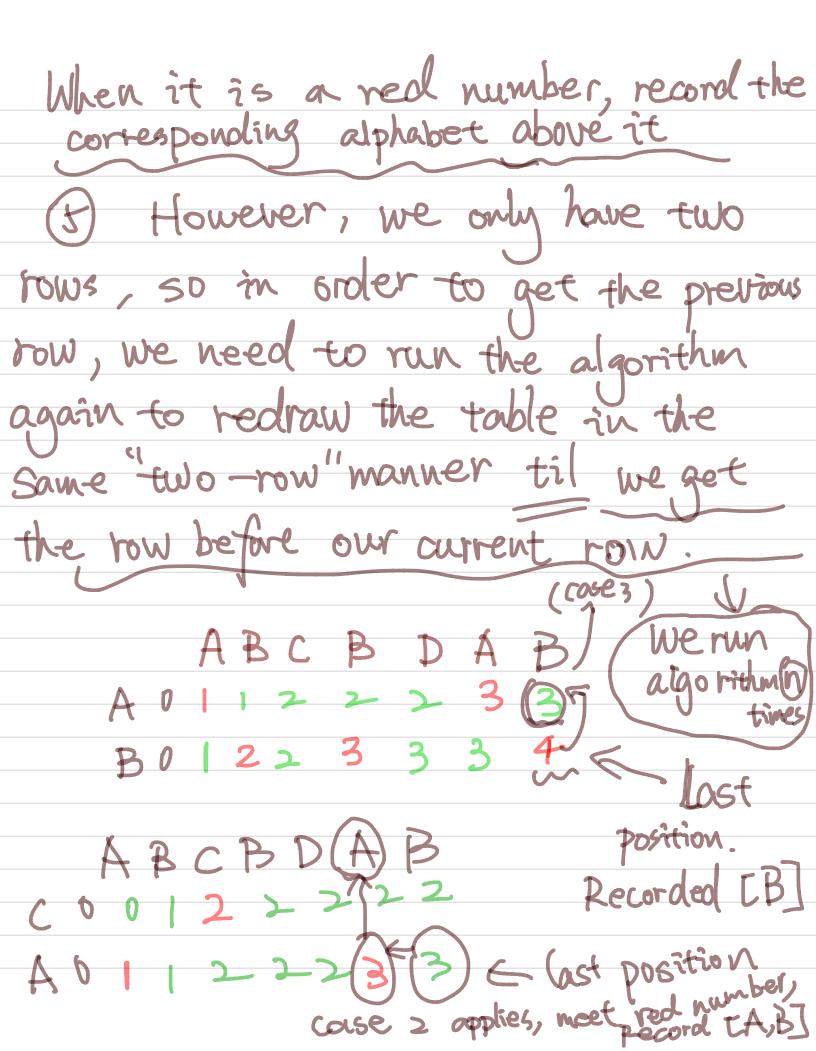
To keep track on the previous info and make use of it to avoid the lepetitive comparison, we still need a table. But to have linear space, it will be a partial table that every time only keeps two lines = RULF: (Match) Red: upper diagnal + 1

O ABCBDAB above and left 0 0 0 0 0 0 0 0 6 base cases This takes 3n spaces => A Un) spece

(2) Then we delete the first line (base case line), and iterate to the second number of the other string => (first is B, fortexample)







(b) As a result, until the first line was traced back, the whole algorithm runs n times (to trace back), and the cost of algorithm is $\theta(n^2)$, in total, it will runs in $\theta(n^3)$, with space of $\theta(n)$