LCS, LIS, Edit Distance, Staircase, Rock Climbing LCS -> Longest Common Sub-Sequence A > Orb x y

ab x y

ab b y 2

OP Transition V

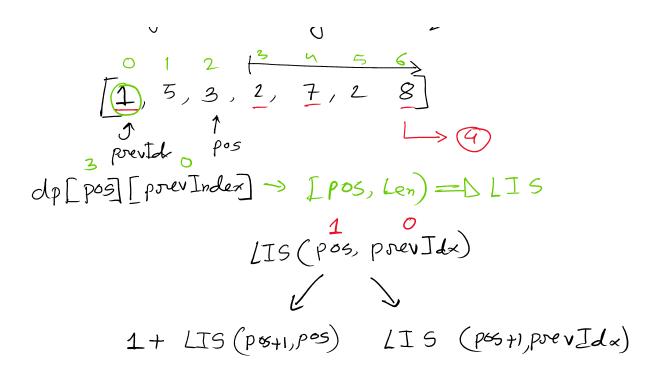
ab b y 2

Base Case

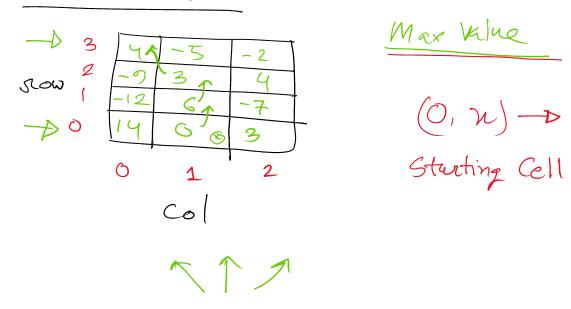
ab b y

Memorization V dp[i][j] = (i → end of A) (j → end of B) LCS LCS(i, j)
True 1+LCS(i+1, j+1) max (LCS(i+1, j), LCS(i, j+1)) abn

LIS -> Longest Increasing Sub-sequence



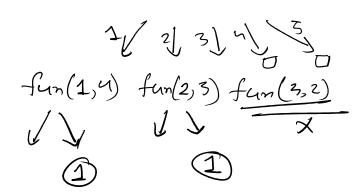
Rock Climbing



Staircase

fun (presstep Cnt, sem) - D count of Stein coopes

fun (0, 5)



Edit Distance

Insert, Delete, Replace

String

- 1 Hashing
- 2) KMP
- 3 Trie / Prefix tree

(Torie + Observation + Math)

Software Engineers Role

Coding, debug, bugsin - Junion ong

API doc