

Y [1. M] X [I -- N], (N, M)XCI.. N-1], Y [1, - M-1] (M-1, M-1) A(i, j) as the Set of common subsequences of x C[...i], Y[[...j]  $(A(i-1,j-1) \subset A(i,j)$  $A(i-1,j) \subset A(i,j)$  $A(i, i-1) \subset A(i, i)$ (ACi,j)(ACi-1,j) = A(i,j)LCS (XCI--N), Y (1..M)) = max (\_CS (x[1..N-1], Y(1..M)), (XC1, --M), Y( |--M-1))

hill climbing



