Lougest wommon entsequence (Quiz problem) Determine a CCS of $(X_1, 0, 1, X_1, 0, X_1, 0,$ $> (\Lambda_1 O_1 \Lambda_1 O_1 \Lambda_1)$ (1,0,0,1,0,0)Courmon en bregnence

Dynamic programming Subproblems: S. [iij] -> find a longest common Enbregnence of the i-length prefix of the first stong and the j-length proxif of the second

let c[i,j] denote the length of an CCS for S[ij] Calculation for clijs o if the ith character of the first string conucides with the jth character of the second one, then $C\left(\frac{1}{1}\right) = C\left(\frac{1}{1}-1\right)-1$

o if they are different, then C[i,j] = max { C[i-1,j], C[i,j-1)} Base case : c[i,o] = c[o,j] = 0

the "quiz problem and

Howework Tou are given a sequence X=(X1,X21,...,Xn) Find a longest palindrow Enbsegnence of X, where a palindrow is a sequence with the property that reading it from left to right is the same as teading it from right to left

