Longest increasing subsequence (LIS) <u>問題</u>: 給定整数序列: a., a., a., ..., a., **全為**5 找出 Li, Lis,..., Lik 且滿足: 1 ≤ Li < Li < ··· < Lix ≤ N 且 air < air 之最大人值 Edit distance 問題: 给定雨序列为ALB和 = 种 operation 之 cost: " Cs. substitution Ci : invertion 121. Ca: deletion # BA transform IB & min cost eary: 失定義為 decision 版本, Longert increasing subrequence (LIS) <u>問題</u>: 給定整數序列: a., a., a., ..., a., **食為** S 是否存在 Lickner Lin 且满足:15hichichic ····chin 且 auc auc auc cuc ann 而 m=k? Edit distance 問題: 给定雨序列為A & B fo = 种 operation 之 cast: " Cs : substitution C: invertion 121. Ca: deletion 早香有在由A transform 至 B 之 cost 為 t LIS <p edit distance claim: 给定(S.k > 為LIS 之 instance 欲建構 < A. B. Cs. Ci. Ca. t > 為 edit distance 之 instance → S上存在in,...,ik 且满足 I ≤i, ≤iz ≤ ... ≤ik ≤ n 且 Oil < ... < Oik ⇔ 存在-cort 為七之方法 由 A transform 至 B 建構方式如下: A=S B= sorted(S) 含 |A|=n 則: t=|n-k). Collection + (n-k). Cinsertion

= (n-k)[Cdeletion + Convertion]

雨Cs = Ci + Cd

