Tutorial #6 Thursday, October 19, 2017 4:13 PM Dynamic Programming What is it? · similar to Divide & Conquer Lo solves problems by combining solas to subproblems · when subproblems overlap · solve subproblem only once Lo store in memory (table) · optimization problems Lo many solutions owant the optimal one 4 Steps in Dynamic Drogramming 1) Characterize the structure of an optimed solv @ Recursively define the value of an optimal solo 3 Compute the value of an optimal solo (typically Borrom up) (Compute optimal solo from computed itermation Longest Common sequence • given 2 sequences 1. X = \(\pi_1, ..., \pi_m \} 2. Y = {y1, ..., yn} Goal? Find a subsequence common to both whose length is longest. A subsequence doesn't have to be Consecutive, but it has to be in order example: horse back snow flake Brute Force Approach? - For every subsequence of X check whether its a subsequence







