Young Algorithms continued!!! XXX Important: > asss -) 21,23,24 1. Activity Selection Tooblem :> Igiven a set of activities with finsah somes, select number of activities performed work on a (5,75, 58,95,51,4), (5,91, (0,6), (3,5) Start Time A2X A3 X VAS A6 Steps: Os of the activities according to their finish times in ascerding The select the activity which finishes earliest. For each activity if the start time is after or each activity to the finish time of the selected activity we release it.

The final selected activities are the final selected activities are those which are selected without overlassing. Dynamic Fragramming: > (Recursion) Those who forget the Bast are forced to refeat the. \* Overlapping subproblems.

1) Recursion. 2) dp[] -> Memoisation 3) Tabulation \* (4) Space - Oftimization 1D DP ZD DP "Abdul Bari" Pændo Code fibonacci Soires: > (Recursions Tree) 0,1,1,2,3,5,8,13,26 0,1,2,3,5,8,13,26 0,1,2,3,5,8,13,26F(0) F(1) (1) f(1) f(1) f(1) (o) f(i) f(0) f(s) f(4) f(4) + (3) f(n) = f(n-1) + f(n-2)0,1,1,2,3,5,8,13,----Arry = O(n)T/c = O(n) $P_1 = 1$ cur = p + P S/c = O(1) $\frac{2}{2} \frac{1}{n} \frac{1}{p_1} = \frac{p_1}{n}$ Array -> X Back Tracking This Stacks +) - Trees UBS T Adv Craft Algos Porosity Ovenes - Crophs 9205