* Introduction to Greedy Algorithms [Maximum or Minimum Values] All brobable greedy Algo Overtions for coding Interviews: >
1. Minimum number of coins
13. Nikung &
2. Minimum number of platforms
14. Minimum 13. Nikung & Donuts 14. Minimum Number of Steps 15. Stiding Dindon Problems Activity Schehon Problem Job Scheduling Peoblem Chocolate Distribution Problem (Minimum Passlute Difference) Fractional Knapsack 0/1 Knapsack Huffman Encoding Clas Station Problem Lest Code Creeks For Creeks ***10**. Lemonade Change Problem Cooling Ninjas 11. Minimum Cost of Connecting Ropes Minimum Arrows to 12. Value, V = 91 (50, 20, 20, 1) 4 coins $\pi u = \{50, 20, 20, 1\}$ = 31While (V = Coins[i]) V = Coins[i] V = Coins[i]min Coim - m. sije(); Activity Selection Problem: Description of Sout (finish) (1) 1st Activity

liven a list of activities with their start se finish times,

select the (maximum) number of activities that can be completed bey a person in a given time if he /she can only below one activity at a certain fine without overlapping. (Custom Comparator) **

hime without overlapping. Start Finish Sort (Finish) Output

5 7 w A3 (1,4) A3 (1,4) 0 15

8 9 1 A6 (3,5)

1 4 1 AS (0,6) A1 (5,7)

5 9 1 A1 (5,7)

6 A4 (5,9) A2 (8,9)

3 5 7 5 5 5 detivity Minimum Number of Phtforms: arr [] = { 900, 940, 950, 1100, 1500, 1800} dep [] = { 910, 1200, 1120, 1130, 1900, 2000} Sot dep[] = {910, 1120, 1130, 1200, 1900, 2000 { sot) platform = 0 max platform = 0 860: Leetcode (Lemonade Charge) 10+5 = 15 bill FS \(\frac{5}{10} \)
\(5 \)
\(1 \)
\(10 \)
\(10 \)
\(10 \)
\(20 \) 5,5,10,10,20 Jas Station Problems (in) ex = 3) 5 xTCS basic fuel cost to so to next (i) diff[i] courtant total tank | index = 8-10 TCS Ningar = 12 -2 -2 1 = 12 = 2 or star at 1) Orgreater, me forme mis (Dynamic Phogramming) Those who forget the past are forced to repeat it!" * It is the solution of smaller overlapping subproblems to solve an even bigger broslem. Kecusion (whon (Memoization - Top-Down Deproach Tabulation -> Bottom-Up Approach (IV) Space Optimization f10) f(1) 0,1,1,2,3,5,8,13,21, $\rightarrow +(n) = +(n-1) + +(n-2)$ 8 Recursion ree 1) Recussion -> No choice (All calls) Memoisation -> Previous values au not calculated.