Applications of Recursion: Dynamic Programming Backtracking * Nowens -) VTU -> easy * Rot In A Maje *** } * Sudoku Solves *** * Subsets of an array (Power Set) n * Subsequences of a string * Phone keyped problem Rat In A Maze Dark -> Unsafe * -> Forward Traversel (xH,y)
* -1 N-2D Matrix : mxn -) cour -) (x,x) Travasal (x,y+1)
-) cour -) (x,x) Stand (a,y)=10 * Introduction to Greeny Algos Minimum number of coins Activity Selection Problem Minimum cost & ropes * Chocolate Distribution Publem * Police men & Theres * Minimum number of Stairs * Job Scheduling Problem * Fractional O Knapsack + 0-1 knapsøde + Huffman Encoding Nikung Se Donnte int[] como = (nin / max) $\{1, 2, 5, 10, 20, 50, 180, 500, 2000\}$ V- coins [i] >= 0 50 21 - 20 = 1Activity Selection Robbems > Given a set of activities with their start & finish times, select the maximum number of activities that can be performed by a single berson, assuming that a person can only perform a single activity (at (5,7), (8,9)) Activity Start Finish Sut(f)
AI S 7 A3(1,4) AS 10,6) A 2 (8,9) * Sliding Window Chocolate Distribution -, 7, 3, 2, 4, 9, 12, 51=0, 1= 56-9 - 100 large 4 - 2 7 - 3 9 - 4