Grandy Strangy -> One of the algorithm design stroategy > for solving optimization problem -> Algorithm picks the best solution at the moment ususout regarding consequences -> ge prizhs the immediali output, but does not conorder the tog pretise, hence it is considered as greedy. > If shows an opinial solution that may or not be tome Applications. 4) Huffman Goding 1) knapsack Problem 5) Ophmal merge pattern b) Dijskefræs algunishm. 20 MST 3) Job Sequencing -> Greedy algorithm has 5 components. 1) Candridate set: - A solution is created from this set 2) A scleafron function: Used to choose the best candidate 3) A feasibility Solntron: - (Used to determine whether a ) candidate can be used to conforbule the Schotton. 4) An objective function: Sugar to awage a value to a solute 5) A Solution Function: - & Used to indicate whether the competi 1> A Rubsel that satisfies the constraints is of called a L> A fearible solution that impairings or winimizes a fearible bohision given (objective) function is called Optimal Solution. Ly The greedy method finds optimal solution from fearible 3drifton.

-> Lets take of a problem, P. > We want to move from location (A) to location (B). -> But the constanint is that we want to cover this tononey in Jahrs. P: A - 12 hos > B There are many solutions, we can downed by > walk -> Car -> auto but the fearible solutions are by train or -> Train (Fearible -> satisfying the confideraint). - Led's we want to cover the journey with minimum cost (minim Lation problem) > So out of a fearible solutions, the above constraint is satisfied ie, min' cost or best result => train > minimum cost satisfying solution. > So there can be more than I fearible solution, but only one optimal somition Control Shelvaision. > Spreedy method says that a partilion can be solved in stages. -> In each stage we will consider one imput from a given postblem and if that ip is fearable, then we include it im the solution > So hy including all those input which are feasible we get ophinal Solution. Algorithm Algorithm-greedy (a,n) a-9 problem h -> no: of Sohohons. for (ist ton) do n= Select (a); if (featible (x)) then Solution = Solution + ox;