Gracedy Stantegy

- · A greecely algorithm always makes the choice that looks best at the moment.
- · That is, it makes a locally optimal choice in the hope that this choice will load to a globally optimal solution.
- · Groceedy algosithms do not always yield optimal solutions, but Jose many pseubleons they do.
- The goveredy method siggests that one can obvise an algorithm which works in stages, considering one input at a time.
- · At each stage, a decision is made sugarding whether on not a particular input is in an optimal solution.
- · If the inclusion of the next input into the pasitially constancted optimal solution will susult in an ingeasible solution, then its input is not added to the pasitial solution.
- · The selection porocedure itself is based on some optimization measure.

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Grocedy Method Contorol Abstraction

Porocedusie Grocedy (A,n) //A (1:n) contains the n inputs //

Solution = & // Initialize the solution to empty //

Josi i=1 ton do

x = SELECT (A)

if FEABIBLE (solution, x) then

solution = UNION (solution, x)

endif

orepeat
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networn (solution) end · The Junction SELECT selects an input John A, sumoves it & assigns its value to x. · FEMSIBLE is a boolean valued Junction which determines if x can be included into the solution vector. · UNION actually combines x with solution.