

# Greedy Algorithm (Optimization problem)

## Algorithm design technique

It builds a solution part by part choosing the next part in such a way that it gives an immediate benefit. It never reconsiders the choices taken previously. It always makes the choice that looks best at the moment (locally optimal choice) in the hope that this choice will lead to a globally optimal solution.

## DP vs Greedy:

- 1.
2. DP solves the subproblems before making the first choice.  
Greedy makes its first choice before solving any subproblems.
3. DP → bottom-up fashion  
Greedy → top-down fashion.

