

# Greedy Algorithms

## Greedy Algorithms

- A greedy algorithm solves an optimization problem by making the best decision at each step. This is known as the *locally optimal* decision.
- Greedy algorithms are simple and efficient but are **NOT** always correct.
- In order for a greedy algorithm to work, a problem must satisfy:
  - The optimal substructure property
  - The greedy property

Greedy Solution

