

Optimization Problem

A problem in which

- some function (called the **optimization** or **objective function**) is
- to be optimized (**minimized** or **maximized**)
- subject to some **constraints**.

Feasible And Optimal Solutions

For a Problem:

- Many solutions
- Some feasible solutions
- An optimal solution

A feasible solution is a solution that satisfies the constraints.

An optimal solution is a feasible solution that optimizes the objective/optimization function.

✓ An optimal solution ✗ The optimal solution₂
Paris

Methods for solving Optimization Problems

- Greedy Method
- Dynamic Programming
- Branch and Bound

Thank You

Stay Safe