Advanced Analysis of Algorithms

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1. When to use greedy and when to use DP?

2. Brief discussion about the 0/1 knapsack problem,
   and the fractional case.

3. The backtracking technique. Search trees (in-order,
   pre-order, depth-first, breadth-first).

4. The 4-queens problem, extension to N-queens.

5. Graph 3-coloring.