ECS 122A
Algorithm Design and Analysis

Instructor: Qirun Zhang
Agenda

• Dynamic programming
  - Longest common subsequence
  - Optimal binary search tree
    • Becomes optional
  - Read corresponding sections!
Updates

• **Algorithm design = basic idea + pseudocode**
  - Required for hw4 and the final
  - For DP problems, write down the recursive formulation
    • E.g., $r_n = \max(p_i + r_{n-i})$, where $i \in [1,n]$

• **Spend more time..**

• **Schedule**
  - Next week: NP-completeness (Chapter 34)
The End