Final Exam Review

1. Dynamic Programming (Chapter-6)
    a. Minimum Edit Distance (sec. 6.3, also see in-class exercise)
    b. Longest common Subsequence (also see in-class exercise)
    c. Assembly line scheduling (refer to class handout)
    d. Longest increasing subsequence (refer to in-class exercise)
2. Growth of functions
3. Greedy Algorithms (Chapter-5)
    a. Huffman encoding (sec. 5.2 page 138)
    b. Minimum spanning Trees Problem
        i. Kruskal Algorithm (sec. 5.1.3 (also see Solution to homework-3, Problem 1)
        ii. Prim Algorithm (sec. 5.1.5)) (also see in-class exercise Problem 2)

4. Single Source Shortest Path Problem (Chapter-4)
    a. Dijkstra Algorithm (sec. 4.4)
    b. Bellman Ford Algorithm (sec. 4.6, page 118) (also see in-class exercises Problem 1; Solution to homework-3, Problem 2)
5. Chapter-7
    a. Flow in Networks (sec. 7.2) (also see in-class exercise)
    b. Bipartite Matching (sec. 7.3)
6. Chapter-3
    a. Depth First search in undirected graphs (sec. 3.2) (also see in-class exercises)
    b. Depth First search in directed graphs (sec. 3.3)