

架構大綱 (上課順序)

Chap 1 Algorithm, Recursion and Performance Analysis
(Time and Space Complexity)

Chap 3 Stack and Queue

Chap 5 Tree and Binary Tree

Chap 9 Advanced Tree
(Huffman Tree, AVL Tree, B tree,
R-B tree, Leftist Heap, OBST.)

Chap 7 Search and Sort

Chap 8 Hashing

Chap 6 Graph

Chap 2 / Chap 4 Array and Link list

基礎 叔學

Time Complexity Analysis

Ds 部份

Ch 1

Ds 部份

Tree, Sort, Graph, Hashing

Ch 5, Ch 9, Ch 6, Ch 7

解決問題 策略

Divide and Conquer

Ds 課程

Ch 7

Greedy

Ch 9

Ch 6 Fractional knapsack problem

★ Dynamic Programming

Ch 9

OBST

ex. LCS problem

Ch 6

Bellman-Ford Algo

(n+1) 個矩陣相乘, 最小成本

Floyd-Warshall Algo

0/1 knapsack problem