

Data Structures and Algorithms

Introduction/Background Knowledge

Linked Lists

- Trees (and related stuff)
 - Recursion
 - Binary Search Trees
 - Trees in general (DOM)
 - Binary Search
- Sorting Algorithms
 - Why Sorting algorithms? It's about learning Time/Space complexity
 - Bubble Sort/Insertion Sort/Quicksort/Merge Sort/Tim Sort/Bogo Sort
 - Time/Space Complexity (Big O Notation)
- Graphs
 - Types (array/lists)
 - BFS/DFS/A*/Spanning Trees
- Hash Tables
- Algorithms:
 - Memoization, Dynamic Programming, and Generators
 - Greedy Algorithms
 - The Knapsack problem
 - Subsequences
 - LeetCode Problems