

Class Progress

Greedy Algorithm

- Activity Selection Problem

Brute Force Algorithm

- All Possible Subset
- Meet in the Middle

Sorting Algorithm

- Merge Sort
- Heap Sort
- Quick Sort
- Bubble Sort (**Presentation Pending**)
- Selection Sort
- Insertion Sort

Graph Theory

- Different Types of Graph Representation
- Implicit Graph
- Minimum Weight in a Path using Binary Search
- DFS (Flood Fill Problem in 2D Grid)
- BFS
- Topological Sort
- Dijkstra
- Disjoint Set Union (DSU) - Finding Cycle in a Graph

Dynamic Programming

- Subset Sum
- Fibonacci
- Rock Climbing
- Knapsack
- Coin Change

Searching Algorithm

- Linear Search
- Binary Search

String Algorithm

- KMP
- Robin Karp

Computational Geometry

- Jarvis March
- Graham Scan (**Presentation Pending**)

Advanced-Data Structure

- Segment Tree
- Lazy Propagation

Backtracking

- Maze Solve
- N Queen Problem

Cumulative Sum

- Range Queries
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