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GRAPH ROADMAP

10 DAYS



DAY 48

- Understand Graphs
- Understand all three Graph representations and do hands-on
 - Edge list
 - Adjacency Matrix
 - Adjacency List
- Read and Understand Different types of Graphs
 - Directed Graphs
 - Weighted Graphs etc

DAY 49

- Breadth-first search (BFS)
- Depth-first search (DFS)

DAY 50

- Dijkstra - The shorter path from a given node to all vertices
- Floyd Warshall - The shorter path from every vertex to every other vertex

DAY 51

- Prims - Minimum spanning tree
- Kruskal - Minimum spanning tree

DAY 52

- Topological sort
- Articulation points in a graph
- Bridges in a graph
- Johnsons algorithm

DAY 53

- Clone Graph - Leetcode 133
- Number of Islands -- Leetcode 200
- Course Schedule -- Leetcode 207

DAY 54

- Valid path -- Leetcode 1391
- Is Graph Bipartite? -- Leetcode 785
- Smallest multiple with 0 & 1

DAY 55

- Commutable islands
- Detect cycle in Directed and Undirected Graph
- Black shapes

DAY 56

- Knight on chess board
- Word ladder I
- Word ladder II

DAY 57

- Smallest sequence with given primes
- Capture regions on board
- Word search board