DSA Topic-wise LeetCode Study Guide

EVCALEMEI	– Traversal & Basic Graph/Tree	
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Binary	Tree	Inord	er Tr	aversal
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- LeetCode 94
- Video: "Inorder Traversal (recursion + stack)" by Tushar Roy

Binary Tree Level Order Traversal (BFS)

- LeetCode 102
- Video: "Binary Tree Level Order Traversal BFS explained" by NeetCode

Symmetric Tree

- LeetCode 101
- Video: "Symmetric Tree (DFS + BFS)" by Kevin Naughton Jr.

Maximum Depth of Binary Tree (DFS)

- LeetCode 104
- Video: "Max Depth of Binary Tree DFS tutorial" by NeetCode

Same Tree

- LeetCode 100
- Video: "Same Tree DFS check" by Tushar Roy

Flood Fill

- LeetCode 733
- Video: "Flood Fill DFS/BFS solution" by NeetCode

Number of Islands - LeetCode 200

- Video: "Number of Islands - BFS & DFS" by WilliamFiset

Convert Sorted Array to BST (DFS)

- LeetCode 108
- Video: "Convert Sorted Array to BST recursion" by NeetCode

Path Sum

- LeetCode 112
- Video: "Path Sum DFS tutorial" by NeetCode

Find if Path Exists in Graph

- LeetCode 1971
- Video: "Check path in graph using DFS/BFS" by Algorithms Live!
- MEDIUM LEVEL
- ⊗ Shortest Path Algorithms

Network Delay Time (Dijkstra)

- LeetCode 743
- Video: "Dijkstra Algorithm in C++" by WilliamFiset

Cheapest Flights Within K Stops (Bellman-Ford)

- LeetCode 787
- Video: "Bellman-Ford algorithm explanation" by Tushar Roy

All Pairs Shortest Path (Floyd-Warshall)

- LeetCode 1148 (similar matrix DP)
- Video: "Floyd-Warshall algorithm explained" by WilliamFiset
- ♠ Minimum Spanning Tree (MST)

Connecting Cities With Minimum Cost (Prim's)

- LeetCode 1135
- Video: "Prim's algorithm in C++" by Abdul Bari

Min Cost to Connect All Points (Kruskal's)

- LeetCode 1584
- Video: "Kruskal's algorithm + DSU" by Tushar Roy
- Topological Sort

Course Schedule (BFS)

- LeetCode 207
- Video: "Course Schedule Kahn's Topo Sort" by NeetCode

Course Schedule II (DFS)

- LeetCode 210
- Video: "Course Schedule II DFS Topological Sort" by WilliamFiset
- Tree Traversal Variations

Binary Tree Zigzag Level Order Traversal

- LeetCode 103

– Video: "Binary Tree Zigzag Level Order Traversal" by Abdul Bari

Clone Graph

- LeetCode 133
- Video: "Clone Graph BFS & DFS" by NeetCode

Word Ladder (BFS Shortest Path)

- LeetCode 127
- Video: "Word Ladder BFS solution" by NeetCode
- HARD LEVEL
- Network Flow Algorithms

Maximum Bipartite Matching (Ford-Fulkerson)

- (No direct LeetCode problem; see implementation reference)
- Video: "Ford-Fulkerson algorithm explained" by WilliamFiset

Maximum Flow (Edmonds-Karp)

- LeetCode Dinic's-Ford (external)
- Video: "Edmonds-Karp in C++" by Tushar Roy
- Shortest Path Advanced

Path with Minimum Effort (Dijkstra variant)

- LeetCode 1631
- Video: "Minimum Effort Path BFS vs Dijkstra" by NeetCode

Find the City With the Smallest Number of Neighbors (Floyd-Warshall)

- LeetCode 1334
- Video: "Floyd-Warshall for threshold distance" by williamfiset
- **▲** Complex MST Applications

Optimize Water Distribution in a Village (Prim's with Virtual Node)

- LeetCode 1168
- Video: "Optimize Water Distribution MST (Prim + DSU)" by NeetCode
- **(** Topological Sort + DFS

Alien Dictionary

- LeetCode 269
- Video: "Alien Dictionary Topological Sort" by WilliamFiset

Parallel Courses III

- LeetCode 2050
- Video: "Parallel Courses III Word DAG + DP" by NeetCode
- Advanced Traversal

Word Search II (DFS + Trie)

- LeetCode 212
- Video: "Word Search II Trie + DFS" by Tushar Roy

Binary Tree Cameras (DFS Greedy)

- LeetCode 968
- Video: "Binary Tree Cameras greedy solution" by NeetCode

Redundant Connection II (Union-Find + Cycle Detection)

- LeetCode 685
- Video: "Redundant Connection II DSU & Graph" by WilliamFiset