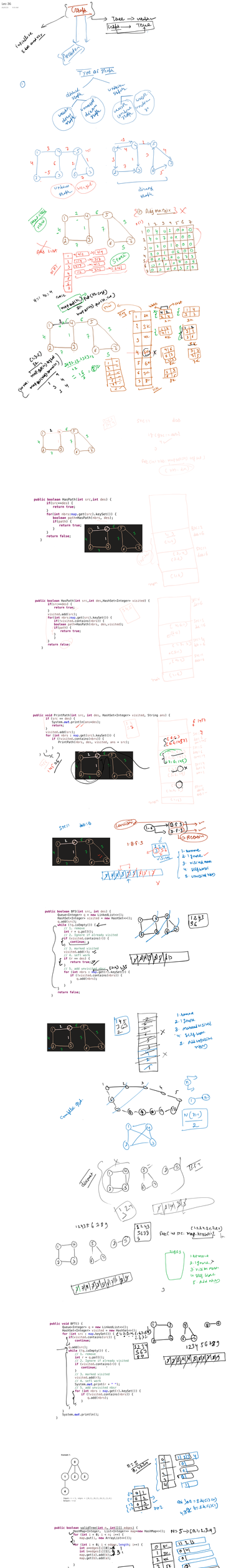
Graph
Tree → Graph
Graph → Tree
Traversal
Type of Graph
directed graph
undirected graph
weight directed graph
weight undirected graph
unweight directed graph
unweight undirected graph
Undirected graph
Unweight
Directed graph
Adj matrix
Adj list
Check
hasPath(1,7) → (2,4) (4,7)
BFS
DFS
Stack
Queue
Cycle
Cycle detection
Topological sorting
Dfs
Bfs
Dijkstra
Prim's
Kruskal
Bellman ford
Floyd warshall
Kosaraju
Tarjan
Articulation point
Bridge
Bipartite
Euler path
Hamilton path
Max flow
Min cut
Dinic's algorithm
Edmonds karp
Ford fulkerson
Push relabel
Hungarian algorithm
Minimum spanning tree
Shortest path
Longest path
Connected components
Strongly connected components
Vertex cover
Independent set
Clique
Graph coloring
Chromatic number
Planarity
Isomorphism
Subgraph isomorphism
Traveling salesman problem
Vertex cover problem
Dominating set
Graph isomorphism
Subgraph isomorphism
Hamiltonian path
Euler