

Graph DSA

1. Adjacency List representation : <https://ide.geeksforgeeks.org/yZ7lvYnKut>
2. BFS (Breadth First Search) :
 - a. given an undirected graph and a source vertex 's' <https://ide.geeksforgeeks.org/1JYKqCPmP6>
 - b. B.F.S on disconnected graphs : <https://ide.geeksforgeeks.org/eoPMnNe3tX>
 - c. Print number of islands in a graph (or number of connected components in a graph) : <https://ide.geeksforgeeks.org/HPs3CVQlrN>
3. DFS (Depth First Search) :
 - a. given an undirected graph and a source vertex 's' <https://ide.geeksforgeeks.org/xpF9AYFQrY>
 - b. For Disconnected Graphs : <https://ide.geeksforgeeks.org/QRfA8cE92K>
 - c. For finding connected components/islands in graph : <https://ide.geeksforgeeks.org/JiJM7uhdML>
4. Detect Cycle in a Undirected Graph
 - a. (DFS method) : <https://ide.geeksforgeeks.org/6NH6MSd4ae>
 - b. (BFS method) : <https://ide.geeksforgeeks.org/YX7x0ir7ow>
5. Bipartite Graph
 - a. BFS method : <https://ide.geeksforgeeks.org/LJwbObu6U1>
 - b. DFS method : <https://ide.geeksforgeeks.org/qKKBsV8rcy>
6. Topological Sort
 - a. DFS method : <https://ide.geeksforgeeks.org/A7LHVToQYE>
 - b. BFS method : <https://ide.geeksforgeeks.org/mleiCuxsUc>
7. Shortest Path in an Unweighted graph : <https://ide.geeksforgeeks.org/DKX9mdThcv>
8. Shortest Path in Directed Acyclic Graph (DAG) : <https://ide.geeksforgeeks.org/vPTy9pqJoh>
9. Dijkstra's Algorithm | Shortest Path in Undirected Graphs : <https://ide.geeksforgeeks.org/uKlchX0h9u>
10. Minimum Spanning Tree
 - a. Prim's Algorithm :
 - i. Brute Force : <https://ide.geeksforgeeks.org/9pq38no2SV>
 - ii. Efficient (using minHeap) : <https://ide.geeksforgeeks.org/Vx2u3Wj6zk>
 - b. Kruskal's Algorithm : <https://ide.geeksforgeeks.org/yHHTNd3af5>
11. Bridges in a Graph / Cut Edge : <https://ide.geeksforgeeks.org/VIROmKAIY1>
12. Articulation Point / Cut Vertex : <https://ide.geeksforgeeks.org/yllIVq5dwh>
13. Strongly Connected Component :
 - a. Kosaraju's Algorithm : <https://ide.geeksforgeeks.org/Z2fsVZDRGO>
 - b. Tarjan's Algorithm : <https://ide.geeksforgeeks.org/iCoDUW2OFA>
14. Bellman Ford Algorithm | Detect Negative cycle in a graph : <https://ide.geeksforgeeks.org/68Nqln252M>