**6\_Graph**

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| Level 1 | | | |
| 1. Print Adjacency List |  | 1. Transitive Closure of a Graph |  |
| 1. BFS of Graph |  | 1. Union-Find |  |
| 1. DFS of Graph |  | 1. Detect Cycle using DSU |  |
| Level 2 | | | |
| 1. Connected Components in an Undirected Graph |  | 1. Mother Vertex |  |
| 1. Find the number of islands |  | 1. Unit Area of largest region of 1’s |  |
| 1. Detect cycle in an undirected graph |  | 1. Rotten Oranges |  |
| 1. Hamiltonian Path |  | 1. Minimum Swaps to Sort |  |
| 1. Prerequisite Tasks |  | 1. Steps by Knight |  |
| 1. Course Schedule |  | 1. Implementing Dijkstra Algorithm |  |
| 1. Circle of Strings |  | 1. Neeman’s Shoes |  |
| 1. Snake and Ladder problem |  | 1. Minimum Spanning Tree |  |
| 1. Bipartite Graph |  | 1. Strongly Connected Components (Kosaraju’s Algo) |  |
| 1. Maximum Bipartite Matching |  | 1. Bridge Edge in Graph |  |
| 1. Detect cycle in a directed graph |  | 1. Flood Fill Algorithm |  |
| 1. Find whether path exists |  | 1. Replace O’s with X’s |  |
| 1. Toplogical Sort |  | 1. Shortest Prime Path |  |
| 1. Level of Nodes |  | 1. Word Search |  |
| 1. Possible paths between 2 vertices |  | 1. Construct binary palindrome by repeated appending and trimming |  |
| 1. Find the number of ‘X’ total shapes |  | 1. Word Boggle |  |
| 1. Distance of nearest cell having 1 |  |  |  |
| Level 3 | | | |
| 1. Critical Connections |  | 1. Word Ladder I |  |
| 1. Minimum Cost Path |  | 1. Word Ladder II |  |
| 1. Strongly Connected Components (Tarjan’s Algo) |  | 1. Find number of closed islands |  |
| 1. Articulation Point – I |  | 1. Shortest Path by removing K walls |  |
| 1. Articulation Point – II |  | 1. Min Length String with All Substrings of Size N |  |
| 1. Alien Dictionary |  |  |  |

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| Link : <https://www.geeksforgeeks.org/top-50-graph-coding-problems-for-interviews/> |