450 DSA Cracker

Topics (/) / Graph

Serial No.	Questions
1	Create a Graph, print it (https://1drv.ms/t/s!AqTOHFO77CqEiRua06v1PATyiFg5)
2	Implement BFS algorithm (https://practice.geeksforgeeks.org/problems/bfs-traversal-of-graph/1)
3	Implement DFS Algo (https://www.geeksforgeeks.org/depth-first-search-or-dfs-for-a-graph/)
4	Detect Cycle in Directed Graph using BFS/DFS Algo (https://www.geeksforgeeks.org/detect-cycle-in-a-graph/)
5	Detect Cycle in UnDirected Graph using BFS/DFS Algo (https://practice.geeksforgeeks.org/problems/detect-cycle-in-an-undirected-graph/1)
6	Search in a Maze (https://practice.geeksforgeeks.org/problems/rat-in-a-maze-problem/1)
7	Minimum Step by Knight (https://practice.geeksforgeeks.org/problems/steps-by-knight/0)
8	flood fill algo (https://leetcode.com/problems/flood-fill/)
9	Clone a graph (https://leetcode.com/problems/clone-graph/)
10	Making wired Connections (https://leetcode.com/problems/number-of-operations-to-make-network-connected/)
11	word Ladder (https://leetcode.com/problems/word-ladder/)
12	Dijkstra algo (https://www.geeksforgeeks.org/dijkstras-shortest-path-algorithm-greedy-algo-7/)
13	Implement Topological Sort (https://practice.geeksforgeeks.org/problems/topological-sort/1)

Serial No.	Questions
14	Minimum time taken by each job to be completed given by a Directed Acyclic Graph (https://www.geeksforgeeks.org/minimum-time-taken-by-each-job-to-be-completed-given-by-a-directed-acyclic-graph/)
15	Find whether it is possible to finish all tasks or not from given dependencies (https://www.geeksforgeeks.org/find-whether-it-is-possible-to-finish-all-tasks-or-not-from-given-dependencies/)
16	Find the no. of Isalnds (https://practice.geeksforgeeks.org/problems/find-the-number-of-islands/1)
17	Given a sorted Dictionary of an Alien Language, find order of characters (https://practice.geeksforgeeks.org/problems/alien-dictionary/1)
18	Implement Kruksal'sAlgorithm (https://www.geeksforgeeks.org/kruskals-minimum-spanning-tree-algorithm-greedy-algo-2/)
19	Implement Prim's Algorithm (https://www.geeksforgeeks.org/prims-minimum-spanning-tree-mst-greedy-algo-5/)
20	Total no. of Spanning tree in a graph (https://www.geeksforgeeks.org/total-number-spanning-trees-graph/)
21	Implement Bellman Ford Algorithm (https://practice.geeksforgeeks.org/problems/negative-weight-cycle/0)
22	Implement Floyd warshallAlgorithm (https://practice.geeksforgeeks.org/problems/implementing-floyd-warshall/0)
23	Travelling Salesman Problem (https://www.geeksforgeeks.org/travelling-salesman-problem-set-1/)
24	Graph ColouringProblem (https://www.geeksforgeeks.org/graph-coloring-applications/)
25	Snake and Ladders Problem (https://leetcode.com/problems/snakes-and-ladders/)
26	Find bridge in a graph (https://www.geeksforgeeks.org/bridge-in-a-graph/)
27	Count Strongly connected Components(Kosaraju Algo) (https://practice.geeksforgeeks.org/problems/strongly-connected-components-kosarajus-algo/1)
28	Check whether a graph is Bipartite or Not (https://www.geeksforgeeks.org/bipartite-graph/)
29	Detect Negative cycle in a graph (https://www.geeksforgeeks.org/detect-negative-cycle-graph-bellman-ford/)

Serial No.	Questions
30	Longest path in a Directed Acyclic Graph (https://www.geeksforgeeks.org/find-longest-path-directed-acyclic-graph/)
31	Journey to the Moon (https://www.hackerrank.com/challenges/journey-to-the-moon/problem)
32	Cheapest Flights Within K Stops (https://leetcode.com/problems/cheapest-flights-within-k-stops/description/)
33	Oliver and the Game (https://www.hackerearth.com/practice/algorithms/graphs/topological-sort/practice-problems/algorithm/oliver-and-the-game-3/)
34	Water Jug problem using BFS (https://www.geeksforgeeks.org/water-jug-problem-using-bfs/)
35	Water Jug problem using BFS (https://www.geeksforgeeks.org/water-jug-problem-using-bfs/)
36	Find if there is a path of more thank length from a source (https://www.geeksforgeeks.org/find-if-there-is-a-path-of-more-than-k-length-from-a-source/)
37	M-ColouringProblem (https://practice.geeksforgeeks.org/problems/m-coloring-problem/0)
38	Minimum edges to reverse o make path from source to destination (https://www.geeksforgeeks.org/minimum-edges-reverse-make-path-source-destination/)
39	Paths to travel each nodes using each edge(Seven Bridges) (https://www.geeksforgeeks.org/paths-travel-nodes-using-edgeseven-bridges-konigsberg/)
40	Vertex Cover Problem (https://www.geeksforgeeks.org/vertex-cover-problem-set-1-introduction-approximate-algorithm-2/)
41	Chinese Postman or Route Inspection (https://www.geeksforgeeks.org/chinese-postman-route-inspection-set-1-introduction/)
42	Number of Triangles in a Directed and Undirected Graph (https://www.geeksforgeeks.org/number-of-triangles-in-directed-and-undirected-graphs/)
43	Minimise the cashflow among a given set of friends who have borrowed money from each other (https://www.geeksforgeeks.org/minimize-cash-flow-among-given-set-friends-borrowed-money/)
44	Two Clique Problem (https://www.geeksforgeeks.org/two-clique-problem-check-graph-can-divided-two-cliques/)