



GRAPHS - SET 1 QUESTIONS

Question 1:

Problem link:

https://practice.geeksforgeeks.org/problems/print-adjacency-list-1587115620/1

Difficulty level: Easy

Expected Complexity:

➤ Time: O(V+E)

> Extra space: O(1)

Question 2:

Problem link: https://leetcode.com/problems/find-center-of-star-graph/

Difficulty level: Easy

Expected Complexity:

➤ Time: O(E)

> Extra space: O(1)

Question 3:

❖ Problem link:

https://practice.geeksforgeeks.org/problems/bfs-traversal-of-graph/1

Difficulty level: Easy

***** Expected Complexity:

 \rightarrow Time:O(V + E)

Extra space: O(V)



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Question 4:

❖ Problem link:

https://practice.geeksforgeeks.org/problems/depth-first-traversal-for-a-graph/1

Difficulty level: Easy

Expected Complexity:

 \rightarrow Time:O(V + E)

> Extra space: O(V)

Question 5:

Problem link:

https://practice.geeksforgeeks.org/problems/detect-cycle-in-a-directed-graph/1

Difficulty level: Medium

Expected Complexity:

➤ Time: O(V+E)

> Extra space: O(V)

Question 6:

Problem link: https://practice.geeksforgeeks.org/problems/topological-sort/1

Difficulty level: Medium

Expected Complexity:

➤ Time: O(V+E)

> Extra space: O(V)



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Question 7:

Problem link: https://leetcode.com/problems/all-paths-from-source-to-target/

Difficulty level: Medium

Expected Complexity:

 \rightarrow Time: O(2ⁿ.n)

 \triangleright Extra space: O(2ⁿ.n)

Question 8:

Problem link:

https://practice.geeksforgeeks.org/problems/m-coloring-problem-1587115620/

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Difficulty level: Hard

Expected Complexity:

 \rightarrow Time: O(M^N).

> Extra space: O(N)

Question 9:

Problem link: https://practice.geeksforgeeks.org/problems/alien-dictionary/1

Difficulty level: Hard

Expected Complexity:

 \rightarrow Time: O(N + K)

> Extra space: O(N)