Here's a **curated list of the overall top 10 most popular graph problems** across major topics — **cycle detection, topological sort, Dijkstra, BFS, and DFS** — based on frequency in contests (Codeforces, LeetCode, GFG, etc.), conceptual importance, and recurrence in interviews.

🏆 Top 10 Most Popular Graph Problems Overall

1. Course Schedule – [LeetCode 207]

🔹 **Concepts**: **Cycle detection**, **topological sort**
📌 Detect if a directed graph (course prerequisites) has a cycle.
✅ Classic problem for understanding cycles in **DAGs** using DFS.

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2. Number of Islands – [LeetCode 200]

🔹 **Concepts**: **DFS/BFS traversal**, **connected components**
📌 Count connected components in a 2D grid (graph disguised as matrix).
✅ Most famous DFS/BFS grid problem.

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3. Dijkstra's Algorithm – [GFG / Custom Input]

🔹 **Concepts**: **Dijkstra's algorithm**, **priority queue**, **SPT**
📌 Find shortest paths from source to all nodes in weighted graph.
✅ Most used shortest path technique.

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4. Find Redundant Connection – [LeetCode 684]

🔹 **Concepts**: **Cycle detection using DSU**
📌 Identify the edge that creates a cycle in a tree (undirected graph).
✅ Most famous **DSU** application.

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5. Topological Sort – [GFG / Kahn's Algo]

🔹 **Concepts**: **BFS (Kahn's Algorithm)**, **DFS ordering**
📌 Generate a valid ordering of tasks (DAG).
✅ Essential for task scheduling & course planning.

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6. Cheapest Flights Within K Stops – [LeetCode 787]

🔹 **Concepts**: **Modified Dijkstra / BFS**, **limited depth**
📌 Shortest path with constraints on number of edges.
✅ Real-world airline graph problem.

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7. Alien Dictionary – [LeetCode 269]

🔹 **Concepts**: **Topological sort**, **graph from strings**
📌 Order characters based on alien language dictionary.
✅ Topological sort with character dependency.

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8. Clone Graph – [LeetCode 133]

🔹 **Concepts**: **BFS/DFS**, **graph copy**
📌 Deep copy of an undirected graph.
✅ Common in object graph-based problems.

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9. Word Ladder – [LeetCode 127]

🔹 **Concepts**: **BFS shortest path**, **graph from dictionary**
📌 Find shortest transformation sequence from start to end word.
✅ Famous BFS problem disguised as word puzzle.

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10. Cycle Detection in Directed Graph – [GFG / LeetCode]

🔹 **Concepts**: **DFS with visited + rec stack**
📌 Classic method to find cycles in a DAG.
✅ Frequently asked, foundational problem.

✅ Bonus Problems Worth Practicing

- **Network Delay Time** – [LeetCode 743] – Dijkstra variation.
- **Pacific Atlantic Water Flow** – [LeetCode 417] – BFS/DFS from multiple sources.

- **Detect Cycle in Undirected Graph** – [GFG] – DFS or DSU.

Let me know if you want:

- C++ templates for these problems.
- Practice sheet / tracker.
- Sorted by platform or difficulty (easy/medium/hard).