

Essential Graph Problems

Graph Theory

Start

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Standard Traversal		
<div><div></div></div> Number of Provinces	<div><div></div> Solution</div>	Medium
<div><div></div></div> Find Eventual Safe States	<div><div></div> Solution</div>	Medium
<div><div></div></div> Keys and Rooms	<div><div></div> Solution</div>	Medium
<div><div></div></div> Shortest Path with Alternating Colors	<div><div></div> Solution</div>	Medium
<div><div></div></div> Time Needed to Inform All Employees	<div><div></div> Solution</div>	Medium
<div><div></div></div> Reorder Routes to Make All Paths Lead to the City Zero	<div><div></div> Solution</div>	Medium
<div><div></div></div> All Paths From Source to Target	<div><div></div> Solution</div>	Medium
<div><div></div></div> Critical Connections in a Network	<div><div></div> Solution</div>	Hard

BFS		
<div><div></div></div> Nearest Exit from Entrance in Maze	<div><div></div> Solution</div>	Medium
<div><div></div></div> Shortest Bridge	<div><div></div> Solution</div>	Medium
<div><div></div></div> Minimum Genetic Mutation	<div><div></div> Solution</div>	Medium
<div><div></div></div> Word Ladder	<div><div></div> Solution</div>	Hard
<div><div></div></div> Jump Game III	<div><div></div> Solution</div>	Medium
<div><div></div></div> 01 Matrix	<div><div></div> Solution</div>	Medium
<div><div></div></div> Shortest Path in Binary Matrix	<div><div></div> Solution</div>	Medium
<div><div></div></div> All Nodes Distance K in Binary Tree	<div><div></div> Solution</div>	Medium
<div><div></div></div> Shortest Path to Get All Keys	<div><div></div> Solution</div>	Hard

Matrix Graphs		
<div><div></div></div> Number of Islands	<div><div></div> Solution</div>	Medium
<div><div></div></div> Number of Enclaves	<div><div></div> Solution</div>	Medium
<div><div></div></div> Number of Closed Islands	<div><div></div> Solution</div>	Medium
<div><div></div></div> Max Area of Island	<div><div></div> Solution</div>	Medium
<div><div></div></div> Pacific Atlantic Water Flow	<div><div></div> Solution</div>	Medium

Graph Theory		
<div><div></div></div> Find the Town Judge	<div><div></div> Solution</div>	Easy
<div><div></div></div> Minimum Number of Vertices to Reach All Nodes	<div><div></div> Solution</div>	Medium
<div><div></div></div> Maximal Network Rank	<div><div></div> Solution</div>	Medium
<div><div></div></div> Is Graph Bipartite?	<div><div></div> Solution</div>	Medium
<div><div></div></div> Graph Valid Tree	<div><div></div> Solution</div>	Medium

Union Find / DSU		
<div><div></div></div> Accounts Merge	<div><div></div> Solution</div>	Medium
<div><div></div></div> Satisfiability of Equality Equations	<div><div></div> Solution</div>	Medium
<div><div></div></div> Lexicographically Smallest Equivalent String	<div><div></div> Solution</div>	Medium
<div><div></div></div> Similar String Groups	<div><div></div> Solution</div>	Hard

Topological Sort		
<div><div></div></div> Course Schedule	<div><div></div> Solution</div>	Medium
<div><div></div></div> Course Schedule II	<div><div></div> Solution</div>	Medium
<div><div></div></div> Alien Dictionary	<div><div></div> Solution</div>	Hard
<div><div></div></div> Sort Items by Groups Respecting Dependencies	<div><div></div> Solution</div>	Hard
<div><div></div></div> Largest Color Value in a Directed Graph	<div><div></div> Solution</div>	Hard

Dijkstra's		
<div><div></div></div> Cheapest Flights Within K Stops	<div><div></div> Solution</div>	Medium
<div><div></div></div> Path with Maximum Probability	<div><div></div> Solution</div>	Medium
<div><div></div></div> The Maze II	<div><div></div> Solution</div>	Medium
<div><div></div></div> The Maze III	<div><div></div> Solution</div>	Hard

Minimum Spanning Tree		
<div><div></div></div> Connecting Cities With Minimum Cost	<div><div></div> Solution</div>	Medium
<div><div></div></div> Min Cost to Connect All Points	<div><div></div> Solution</div>	Medium
<div><div></div></div> Optimize Water Distribution in a Village	<div><div></div> Solution</div>	Hard
<div><div></div></div> Find Critical and Pseudo-Critical Edges in Minimum Spanning Tree	<div><div></div> Solution</div>	Hard

Summary

- 8 essential graph topics
- 45 high-quality graph problems

Award

Graph Theory

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