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| GRAPH THEORY | LEARNED | TEMPLATE | SOLVED PROBLEM |
| BFS ( 0/1 ) |  |  |  |
| DFS ( flood fill , bicoloring ) |  |  |  |
| Articulation Point |  |  |  |
| Bridge |  |  |  |
| Biconnected Component |  |  |  |
| SCC |  |  |  |
| 2 SAT |  |  |  |
| K’th Shortest Path |  |  |  |
| MST( directed , second best) |  |  |  |
| Euler Path and Euler cycle  ( construction, optimization) |  |  |  |
| Maximum Bipartite Matching  ( Kuhn , hop croft ) |  |  |  |
| Weighted Bipartite Matching ( Hungarian ) |  |  |  |
| Maximum Flow ( ford , dinic ) |  |  |  |
| Min Cost Max Flow |  |  |  |
| Minimum Vertex Cover |  |  |  |
| Minimum Cut ( Stoer Wagner ) |  |  |  |
| Hamiltonian Cycle  (Longest Path Problem) |  |  |  |
| Counting MST ( Kirchhoff ) |  |  |  |
| Floyds Cycle Finding Algorithm |  |  |  |
| Dijkstra,Bellman ford,Floyd Warshall,topsort,DAG |  |  |  |
| Chinese Postman Problem,  Tree Diameter. |  |  |  |