

Implement the Bidirectional Breadth-First Search (Bidirectional BFS) algorithm to find the shortest path between two nodes in a weighted graph. The graph should be represented as an adjacency list with weights. Your implementation should:

- Use two BFS traversals (one from the start node and one from the goal node) that meet in the middle.
- Handle weighted edges by considering the number of edges as the cost (since BFS inherently finds the shortest path in terms of the number of edges).
- Print the order in which nodes are visited from both directions and the shortest path found.

Graph Visualization

