TIME COMPLEXITIES O() & DESCRIPTION

Algorithm	Time Complexity	Description
Breadth-First Search (BFS)	O(V + E)	Explores the graph level by level, visiting all reachable vertices.
Depth-First Search (DFS)	O(V + E)	Explores the graph by traversing one path as far as possible before backtracking.
Dijkstra's Algorithm	O(V log V + E) (Fibonacci heap)	Finds the shortest paths based on edge weights using a priority queue. (More efficient)