

Topic: Data Structures and algorithms

1. What is the time complexity of the Breadth-First Search (BFS) algorithm in an unweighted graph?
2. What is the time complexity of finding an element in a singly linked list?
3. What is the time complexity of the Depth-First Search (DFS) algorithm in a graph with adjacency lists?
4. What is the time complexity of finding an element in an unsorted array?
5. What is the time complexity of the worst-case scenario in Dijkstra's algorithm?