BFS

DFS

DFS tree

Question: What is the difference between DFS and BFS in terms of their traversal strategies? Answer: DFS explores as far as possible along each branch before backtracking, while BFS explores the graph level by level, starting from the root node. This difference results in DFS having a lower worst-case time complexity in graphs with heavy-tailed degree distributions, but it can lead to longer running times in sparse graphs due to its exhaustive search nature.