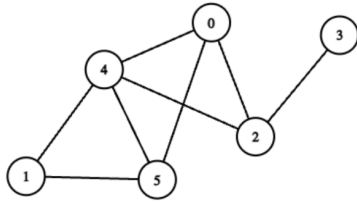
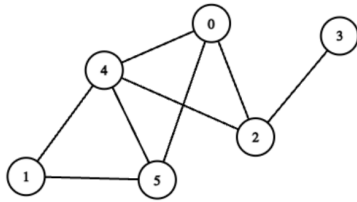


CS62: Fall 2025 | Lecture #20 (Graphs, DFS/BFS) worksheet | Prof. Li

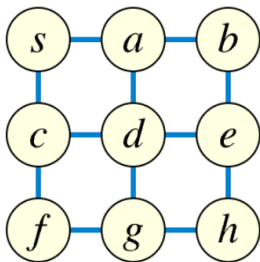
1. Run DFS on the following graph starting at vertex 0 and return the **vertices in the order of being marked**. Assume that the adjacent vertices are returned in increasing numerical order.



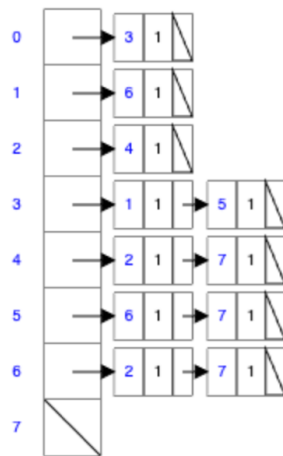
2. Run BFS on the same graph starting at 0 and writing the order of nodes visited.



3. Run both DFS and BFS on the graph below starting at s and writing the order of nodes visited.



4. Given the following adjacency list, visualize the resulting digraph and run DFS on it starting at vertex 0. In what order did you visit the vertices? (Ignore the black 1 values in the list, they're vertex-value pairs) Is every vertex reachable from 0?



5. Given the following adjacency list, visualize the resulting digraph and run BFS on it starting at vertex 0. In what order did you visit the vertices? (Ignore the black 1 values in the list, they're vertex-value pairs) Is every vertex reachable from 0?

