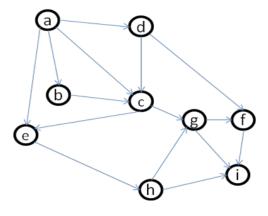
- 1. Using the following graph, execution the following algorithms. When evaluating edges, consider them in alphabetical order:
 - a. Topological sort: show work and the resulting order
 - b. Breadth-first search: start at 'a', and write the order visited
 - c. Depth-first search: start at 'a', and write the order visited



2.

- a. In the previous graph, why would Topological sort fail if an edge from 'h' to 'd' were added?
- 3. Given a directed graph, design an algorithm to find out whether there is a route between two nodes. Code it up!
- 4. Given a binary search tree, design an algorithm which creates a linked list of all the nodes at each depth (eg, if you have a tree with depth D, you'll have D linked lists). Code it up!