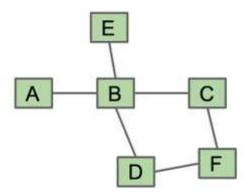
23.4 Exercises

Factual

- 1. Suppose we want to find the vertex with minimal degree (fewest neighbors). Is an adjacency matrix or adjacency list better?
 - > Problem 1

Procedural



- 1. For the graph above, write the representation for the adjacency matrix representation.
- 2. Repeat (1) for the list of edges representation.
- 3. Repeat (1) for the adjacency list representation.
- 4. Run BFS starting from A for the graph above, and list the order in which vertices are visited. Break ties alphabetically.
- 5. Run DFS starting from A for the graph above, and list the postorder/postorder traversals. Break ties alphabetically.

> Problem 2> Problem 3> Problem 4
> Problem 4
> Problem 5

Metacognitive

- 1. Suppose we find some shortest path from a to b using BFS. Consider a vertex c that is on the path between a and b. What can we say about the shortest path from c to b?
- 2. Problem 4c from the Spring 2015 Midterm 2.
- > Problem 1> Problem 2

Previous 23.3 Summary

Next 24. Shortest Paths

Last updated 1 year ago

