

CSCE 340 STUDY GUIDE 3

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1. GRAPH ALGORITHMS

1. Perform a depth-first search on the graph of Exercise 3.1; whenever there is a choice of vertices, pick the one that is alphabetically first.
2. Perform a depth-first search on the graphs of Exercise 3.2; whenever there is a choice of vertices, pick the one that is alphabetically first.
3. Run the DFS-based topological ordering algorithm on graph of Exercise 3.3. Whenever you have a choice of vertices to explore, always pick the one that is alphabetically first.
4. How many different topological orderings does the graph of Exercise 3.3 have?
5. Do Exercises 3.5, 3.9, 3.11 and 3.16

2. BACKTRACKING ALGORITHMS

Forthcoming.