

Week 2: Exercises

Lesson 1

[R] Exercise 1

Implement pre-order, in-order and post-order for arbitrary (non-binary) trees.

[R] Exercise 2

1. Revisit the “farmer, fox, goose and grain” problem.
 - a. Perform depth-first search
 - b. Perform breadth-first search
2. Indicate the performed path in the state tree for both algorithms.
3. [E] Perform iterative deepening
4. [F] Implement it in Python.

[R] Exercise 3

Use the graph below

1. Implement it in Python using either adjacency matrix or adjacency list representation
2. Implement iterative deepening to get from node S (start) to node G (goal)

