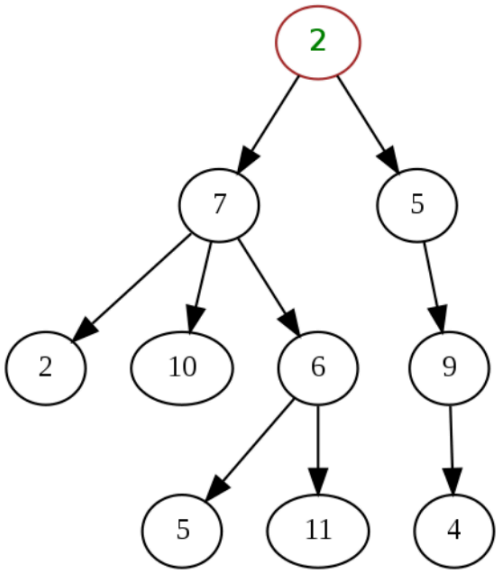
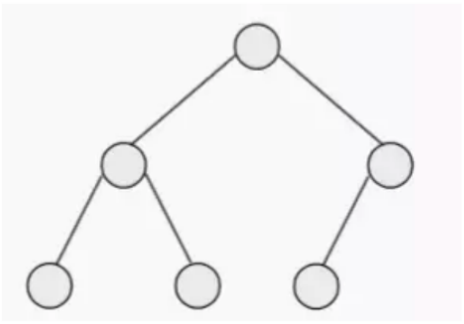
CS62: Fall 2026: Lecture #15 (Binary Trees) worksheet

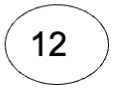
1. Given this tree, fill in the following properties:

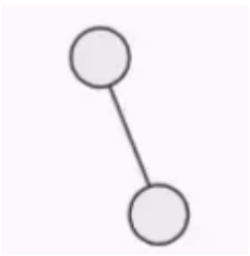


- Which node is the root?
- Which nodes are leaves/external nodes?
- Which nodes are internal nodes?
- Which nodes are siblings of node 10?
- Which node is the parent of node 6?
- Which nodes are the children of node 2 (in red)?
- Which nodes are the ancestors of node 10?
- Which nodes are the descendants of node 7?
- What is the length of the path from 2 (red) to 4?
- What is the height of node 7?
- What is the height of this tree?
- What is the degree of node 7?
- What is the degree (arity) of this tree?
- What is the level/depth of node 11?

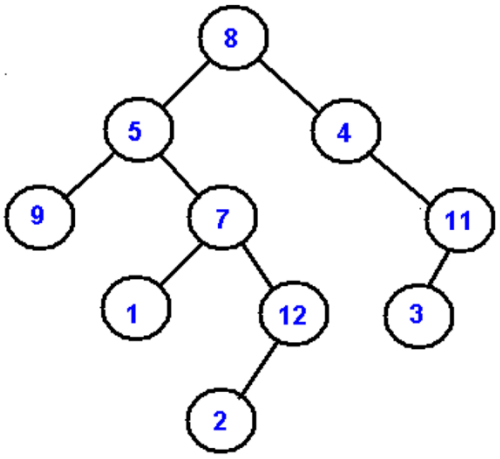
2. Label each of these three trees as either: full, complete, or full+complete







2. Given this tree, list the nodes



- In pre-order:
- In in-order:
- In post-order: