

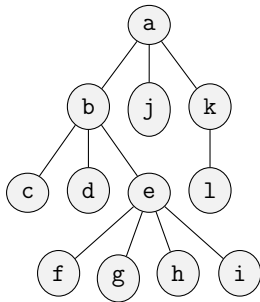
Today: Trees; traversals; BSTs; order statistics. § 18.*; 19.1–19.2.

Next class: Analysis of algorithms; maximum contiguous subsequence. § 5.0–5.3.

Reminders: Syllabus. Quick checks. Newsgroup activity is required; use to advantage.

1. List the members of your group below. Underline your name.

2. Depict the *first-child/next-sibling* representation of the following tree.



3. Depict the binary search tree resulting from the insertion of the following keys, in the order listed, into an empty binary search tree.

42, 64, 47, 89, 29, 56, 69, 81, 74, 26

4. List the nodes of the tree of Question 3 that are probed when it is searched for each of the following keys. Include probes of external nodes as well as internal nodes.

42, 89, 99, 26

5. Depict the tree resulting from the deletion of each of the following keys, in the given order, from the tree of Question 3.

26, 81, 64, 42