

Binary Trees

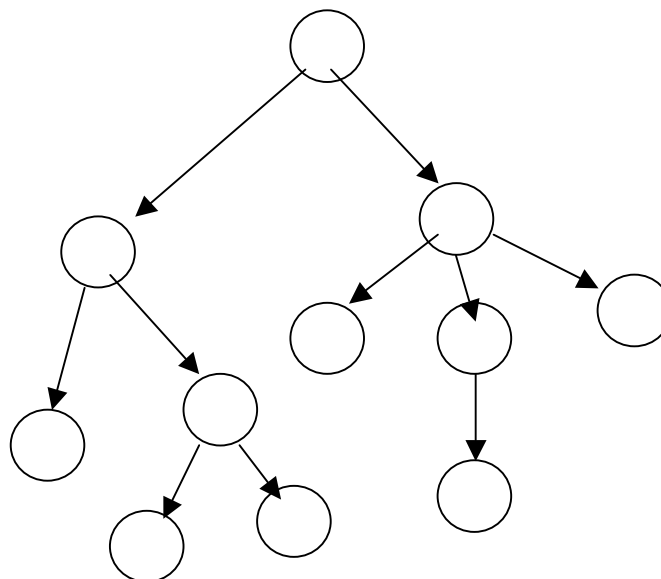
1. Reminders
 - a. Read chapter 12
 - b. Homework Friday
 - c. Exam 2 April 23. Take-home?
2. Terminology
 - a. **Directed Graph**

b. Parent:

c. Child:

d. Tree:

e. Binary Tree:



3. Applications of trees
4. Parse Tree Example: $3 + 4 * (5 - 6) - 1$
5. Parse Tree Exercise: $1 + 7 * ((3 > 4) ? 1 : 2)$
6. Review Linear and Binary Array Search
7. **Binary Search Tree**
8. Binary Search on a Binary Search Tree
 - a. Algorithm
 - b. Issues

	Unsorted Array	Sorted Array	Binary Search Tree
Insert One			
Insert n			
Find			