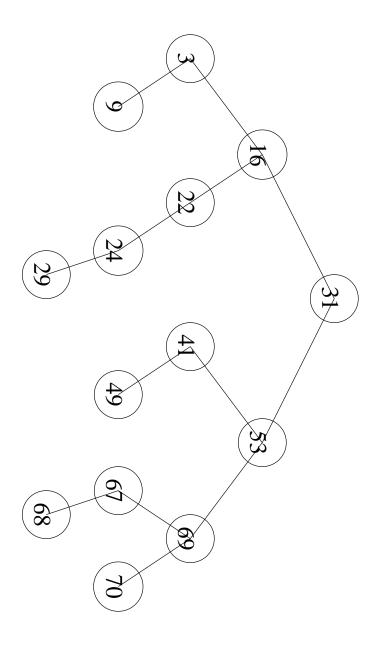
Comp 212 March 29, 2000

Overview

- Announcements
- Milestone #2 due date changed to Fri, Apr 7 at 10AM.Exam #2 on Wed, Apr 5 at 7:30PM in DH 1064.
- Binary Search Trees
- Iterator Pattern

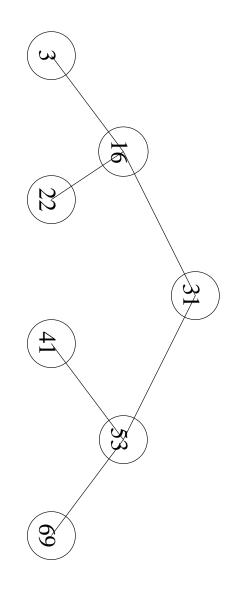
Binary Search Trees

In a binary search tree, each node's key is greater than its left child's key and less than its right child's key.



Binary Search Trees (cont.)

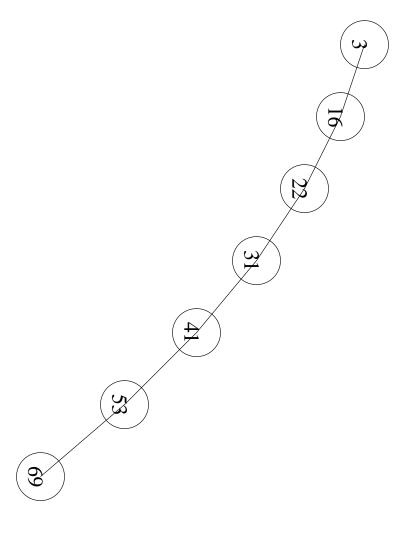
How many steps (in the worst case) would it take to find a key in the following tree?



March 29, 2000

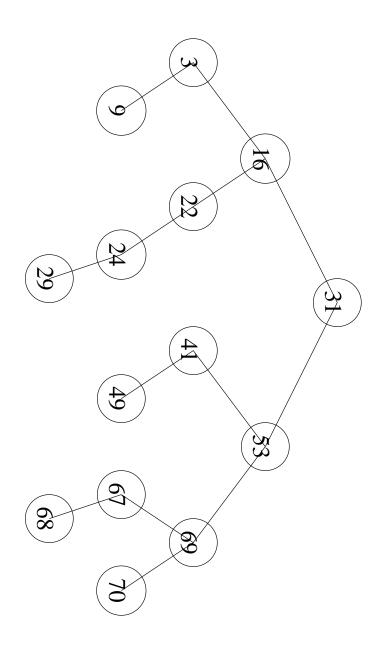
Binary Search Trees (cont.)

The same keys might be arranged to form a "perfectly" unbalanced tree.



Binary Search Trees Insertion

would 79 go? Where would 30 go into the following tree? Where would 32 go? Where



Binary Search Trees Deletion

- Deleting a leaf node, e.g., 68, is easy.
- Deleting an "interior" node, e.g., 53, is hard.

