Reminders

- A2 Due Date: March 24 @ 10:00p.m.
- A2 Team Declaration Due: March 18 @ 10:00p.m.
Outline

- More on Binary Search Trees
Deleting a Node in the Binary Search Tree

- What return value?
- What to do if node is None?
- What if data to delete is less than that at node?
- What if it’s more?
- What if the data equals this node’s data and ...
  - This node has no left child
  - ... No right child?
  - Both children?
Removing a leaf
Removing node with one child
Removing node with both children
Algorithm

Algorithm for delete:
- If this node is None, return that
- If data is less than node.data, delete it from left child and return this node
- If data is more than node.data, delete it from right child and return this node
- If node with data has fewer than two children, and you know one is None, return the other one
- If node with data has two non-None children, replace data with that of its largest child in the left subtree and delete that child and return this node