CSC148 L5102
Introduction to Computer Science
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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
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