Just a few short problems for this week.

**Question 1** (20 pts). *Complete the problem discussed in lab this week: Given the pre-order traversal of a BST (assume it’s given to you in a comma-delimited input string), produce the unique BST that corresponds to this string.*

Submit code for the method `BST<Integer, Integer> PreorderToBST(String s);`

**Question 2** (10 pts). *Reasoning about BSTs.*

a.) Exercise 3.2.3 on p. 416.

b.) Exercise 3.2.4 on p. 416.

**Question 3** (10 pts). *Reasoning about balanced BSTs.*

a.) Exercise 3.3.2 on p. 449.

b.) Exercise 3.3.11 on p. 449.

**Question 4** (Challenge problem: not graded).

a.) Exercise 3.3.22 on p. 450.