W3D4 Lab 2: BST Sort

Description:

In this lab you'll use a BST to sort numbers.

Provided:

We've provided the Code for the BinarySearchTree, RootNode, and Node classses.

Instructions:

You should implement a the following two methods onto the BinarySearchTree class:

- insertAll(array) takes an array of values and inserts all of them into the BST
- readIntoArray() returns an array containing all the values currently in the BST

The insertAll(array) method is pretty self explanatory (just add each element of the array into the BST).

The readIntoArray should do an In-Order-Traversal to get the values from the BST and put it into an array, which it will return.

The easiest way to implement readIntoArray() is with a recursive function on the Node class. If you want you can also write a non-recursive function, but in that case you need to use a stack to keep track of where you are in terms of backtracking.

Write a Mocha / Chai test in order to check if the numbers you put into the BST come out sorted when you use the readIntroArray() method.