Homework 3 CS:3330 Summer 2019 Due Friday, July 19 at midnight

Instructions Complete the following tasks and questions.

1 Theory

- 1. 12.1-3
- 2. 12.2-1
- 3. 12.2-2
- 4. 13.1-2
- 5. 13.3-2

2 Programming

Complete the implementations for

- BinarySearchTree.java
 - put
 - get
 - getNode
 - delete
 - transplant
 - findMinimum
 - remove
- RedBlackTree.java
 - getNode
 - get
 - put
 - insertFix
 - rotateLeft
 - rotateRight

Hint: As much as possible, use already implemented functions to implement other functions. For example, if you already have a function that finds a node in a BST, you don't need to re-implement that logic every time you want to find a node.