COMP 550, Spring 2015 Quiz 4 (open book) Mar 25, 2015

- 1) (80') Name: _____ PID: _____
- 2) (20') The annoying Prof. Guo keeps thinking. This time he thinks he has discovered another remarkable property of binary search trees. Suppose that the search for key k in a binary search tree ends up in a leaf. Consider two sets: A, the keys to the left of the search path; and C, the keys to the right of the search path. He claims that any two keys a ∈ A and c ∈ C must satisfy a <= k <= c. Is Prof. Guo correct? If so, sketch a proof; if not, give a counterexample to the professor's claim.</p>

- 3) (Bonus 5') What do you like most about Kecheng's lectures?
- 4) (Bonus 5') What suggestions do you have to improve Kecheng's teaching?

I promise that I will only forward your comments to him anonymously. Please feel free to use the other side of the sheet.