CMSC 420 - 0201 – Fall 2019
Homework 1 - Solution Template

Instructions: You can either type your answers into the text boxes provided or print this document (single sided) and handwrite your answers into the spaces provided. If you type in your answers, please save it as a pdf file and submit it through Gradescope. If you write your answers, please scan your document please use an image enhancing app such as CamScanner, since raw scanned images are difficult to read.

If your answer does not fit in the space provided, please leave a message as to where to find it (e.g., “Answer continued on page 5”). If you type your answers in, please do not change the layout on the page, because Gradescope uses the exact position on the page to locate answers.

Name: 

Student ID: 

Problem 1:
(a) Convert rooted tree to first-child/next-sibling form:

(b) Convert from first-child/next-sibling form to rooted tree
Problem 2: Add inorder threads
Problem 3:
(a) int getValue(int i, int j, int n)
(b) int getValue(int i, int j, int n)
Problem 4: BinaryNode parent(BinaryNode p)