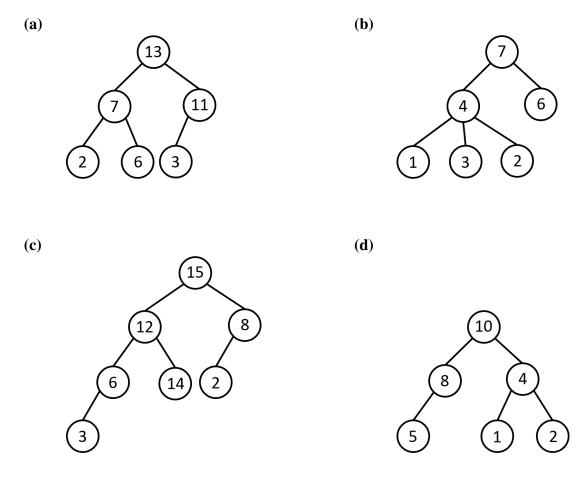
COSC-211: DATA STRUCTURES HW8: HEAPS Due Thursday, May 6, 11:59pm

Reminder regarding intellectual responsibility: This is an individual assignment, and the work you submit should be your own. Do not look at anyone else's work, and do not show anyone your work (except for me and the course TAs).

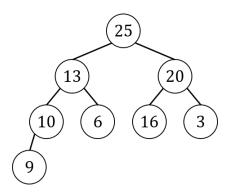
1 The Assignment

This is a short written assignment to give you some practice working with heaps. 1. For each of the following trees:

- Is it a heap?
- If it's not a heap, why not? That is, state the structural and/or organizational properties that are violated (you may list more than one violated property).



2. Here is a heap:



Show what happens after each of the following operations is called in sequence. (For each operation, draw some pictures of what the heap looks like after every step of the add or remove process.)

(a) add (15)

(b) remove()

(c) remove()

(d) add (22)

2 Submit your work

Submit your work via Gradescope.

This assignment is due on Thursday, May 6, 11:59pm.