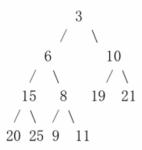
CSCE 3110 Assignment 4 Due: 11/10, 11:59PM

1. (25 points) Build min-heap

Show the result of inserting the follow values one at a time into the initially empty binary min-heap. (show the heap after each insert).

- (1) Use trees to illustrate each heap.
- (2) Show the final heap created in the previous question would be stored in an array.
- 2. (25 points) Repeat the process to build a max-heap with the following list. Show each step of the insertion.

3. (25 points) Show the result after deleteMin on this binary heap. (show each step)



- 4. (25 points) For this 3-heap:
 - a) show how it could be stored in an array
 - b) give the formulas to find the left, middle, and right children from any parent
 - c) give the formula to find the parent from any child

