CSE 332: Data Structures and Parallelism
QuickCheck: Heaps (due Thursday, June 29)
Name: $\square$

## 0. You're My Priority!

(a) Insert the following numbers into a max heap in the order provided:

$$
10,15,5,2,20,30,4,1,41
$$

DO NOT use buildHeap; just insert them one by one. Showing your work might be prudent on a real exam (for partial credit).
(b) Re-order the numbers so that if you were to insert them into a heap again, (1) the result would be an identical heap, and (2) the number of comparisons is minimal.

(c) Draw out the array version of the heap from part (a).

Answer:


