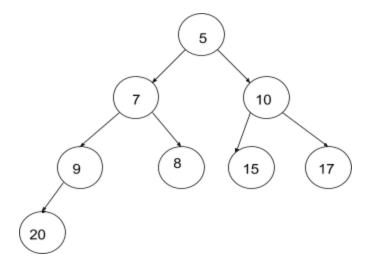
CSE 221: Algorithms Worksheet 2 Heap and Sorting

Name:	ID.
Name.	ID:

Question 1:

a) The following tree is Min Heap Ordered. Explain why.



b) Insert 6 in the above heap ordered tree. Show each step and the final min heap tree.

Question 2:

a) Build a Max heap from the following array. Show both tree and array in each step.

5 20 7 8 15 17 10

b) Remove the root node from the heap tree in 2(a). Explain the algorithm and show the tree in each step.

Question 3: Sort the following using HeapSort. It is already a heap, so ignore the build heap step. Show both array and tree in each step.

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