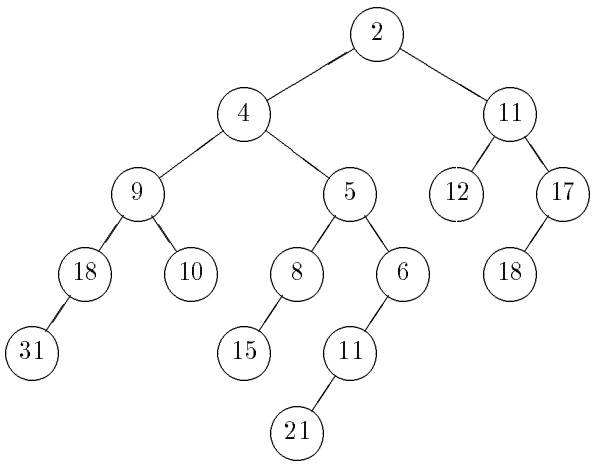
CSE/EE 373 Autumn 1994
Data Structures and Algorithms
Assignment # 6 Common Mistake Solutions

1. Problem 6.16 in the text.

   Answer:



2. Problem 7.4 in the text.

   Answer:

Original	9	8	7	6	5	4	3	2	1
after 7-sort	2	1	7	6	5	4	3	9	8
after 3-sort	2	1	4	3	5	7	6	9	8
after 1-sort	1	2	3	4	5	6	7	8	9

3. Problem 7.11(a) in the text.

   Answer:

   Heapsort uses O(n) to build the heap, and then O(logn) to deltte-min, no matter what the input is, heapsort uses at least nlogn comaprisons, so even for presorted input, the running time is still O(nlogn).