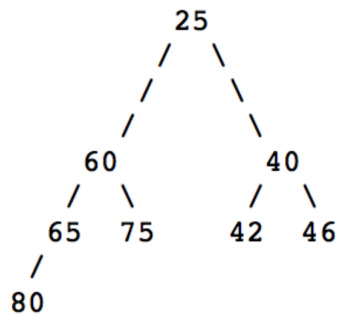


CS 300 Data Structures
Problem Set #19 – Priority Queue cont.

- Suppose that you insert 33 into the following heap. What does the heap look like after insertion?



- Draw the binary heap that results from inserting 11, 9, 12, 14, 3, 15, 7

- Please provide the final state of the binary max heap given below after inserting 71 to the heap.

	100	80	90	60	70	50	85	13			
0	1	2	3	4	5	6	7	8	9	10	11

0	1	2	3	4	5	6	7	8	9	10	11

- What is the minimum number of Item exchanges during a delete the maximum operation in a 15-element binary heap containing the keys 1–15.