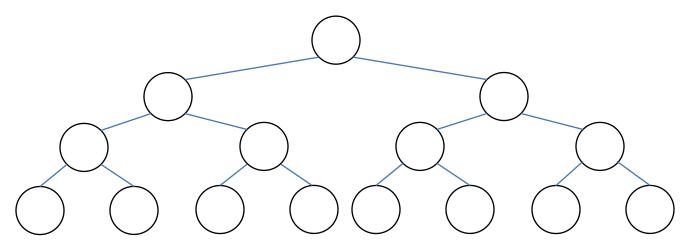
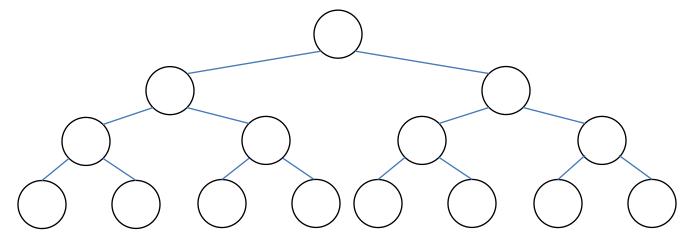
TIC2001 Data Structure and Algorithm Lab 5 Exercise

Insert the following integers by the following order into a binary **MAX** heap. The following order does not require any bubbling up or down.

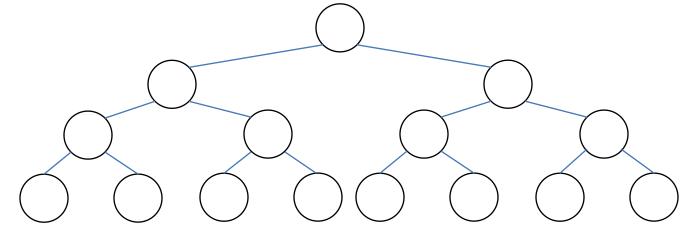
100, 80, 60, 50, 61, 20, 55



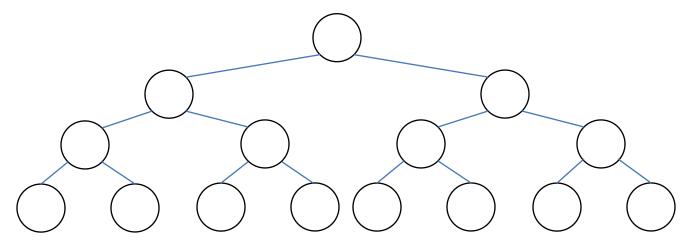
Insert 90, and "bubbling" if necessary, show the final heap below



Insert 40 and 70. Show the final heap



Extract the max from the heap. And show the final heap below



Challenge: If I want to delete 61, think of a case that I need to bubble up the replacement of 61. You may insert more items before deleting 61.

Array Representation of Heap

Array index:

Repeat the whole process from the beginning with an array; insert 100, 80, 60, 50, 61, 20, 55

