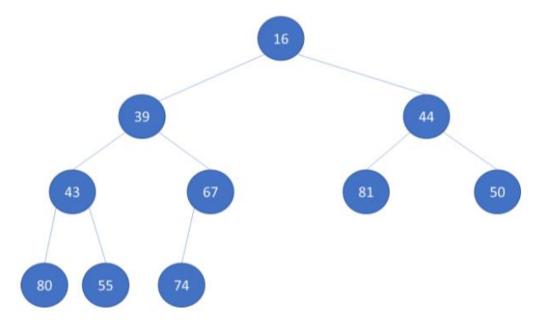
Task 1: How Heaps work

 a) Assume that you have the heap shown below, which is a minimum heap. Insert the element "25" in the heap. Show each step of the algorithm that finds the correct location for the new element.



b) Given the same heap (without the insertion from task a). The user runs delete_min on the heap. Show each step in the operation to return a correct heap.

Task 2: Implement Max-Heapify

Consider input array 10,20,25,6,12,15,4,16. Draw a max heap. First create a binary tree from the array and then follow the process of max-heapify in the binary heap step by step.