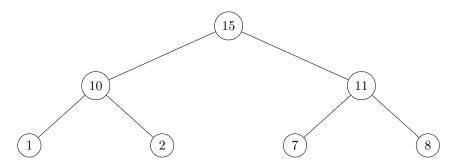
Tutorial 03: May 29

1. Operations on (max)Heap

Insert 27 and 9 into the following heap, and then perform a delete-max operation on the resulting heap.



2. SimpleHeapBuilding

Prove or justify worst-case running time of following pseudocode is in $\Theta(nlogn)$. Note that this code is part of module 02.

simpleHeapBuilding(A)
A: an array
 1. initialize H as an empty heap
 2. for i <- 0 to A.size() - 1 do
 3. H.insert(A[i])</pre>

3. Min-Heap Max Search

Given a full min heap H of size n, design an efficient algorithm to find the maximum value based on the number of comparisons needed.