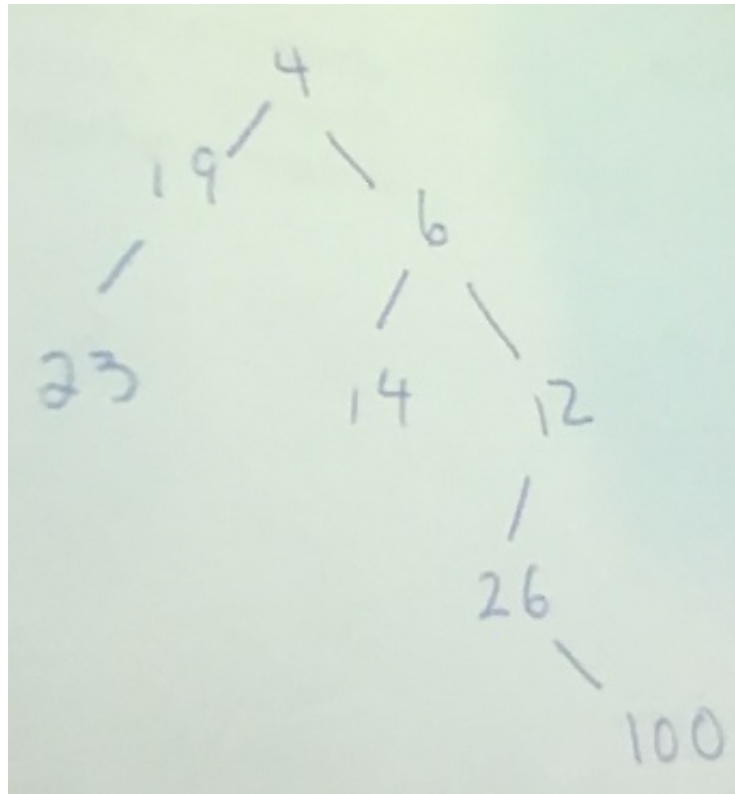# ADT Priority Queue

- The ADT Priority Queue maintains a collection of elements with an accessing function that produces the highest priority elemenet
  - addElt: PQ elt -> PQ
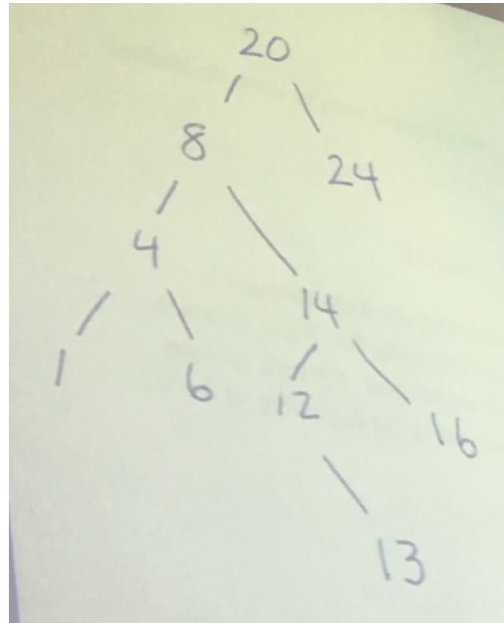 - minElt: PQ -> elt
  - remMinElt: PQ -> PQ

Heaps

A heap is a binary tree such that the smallest item is the root of the tree and the left and right subtrees are heaps.
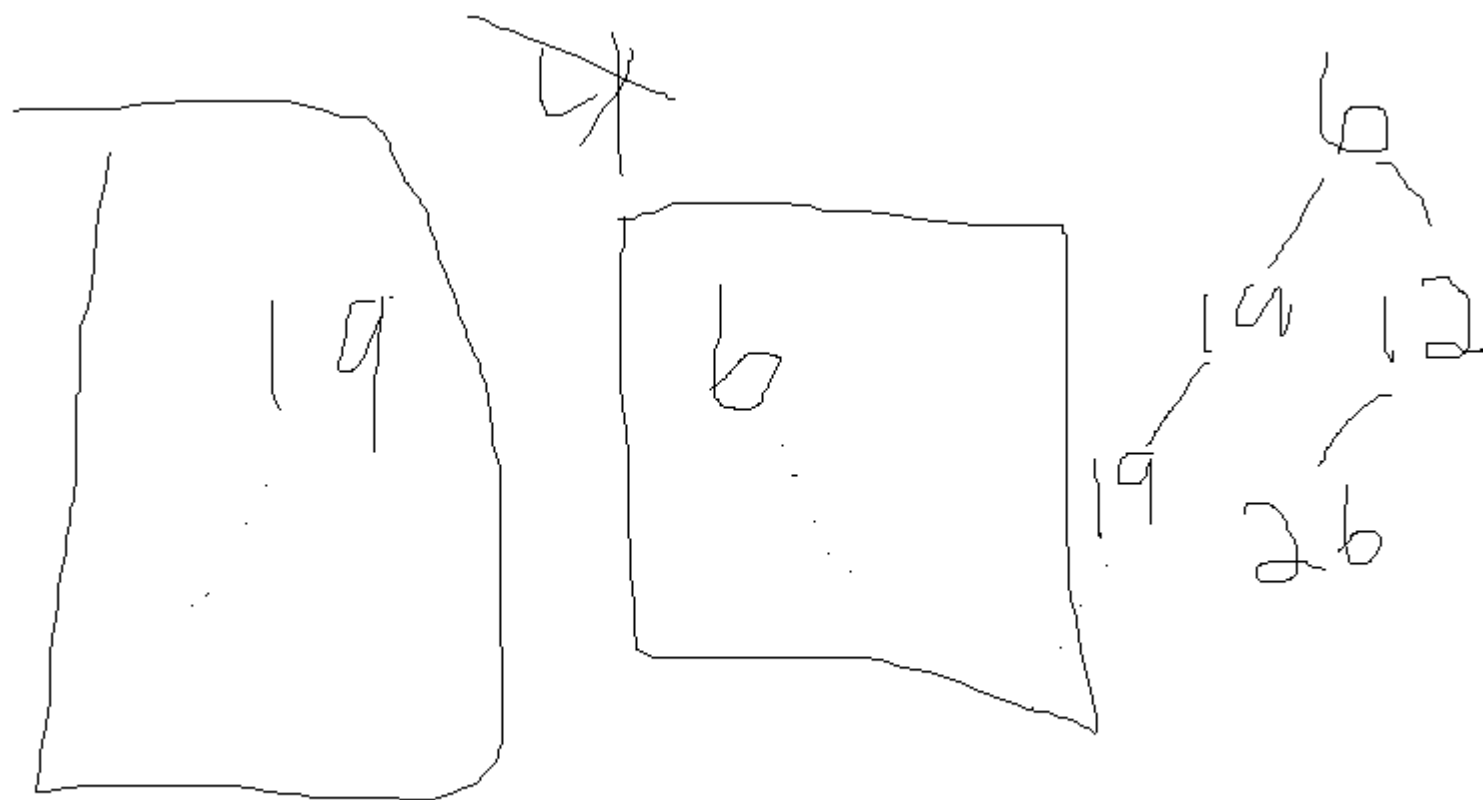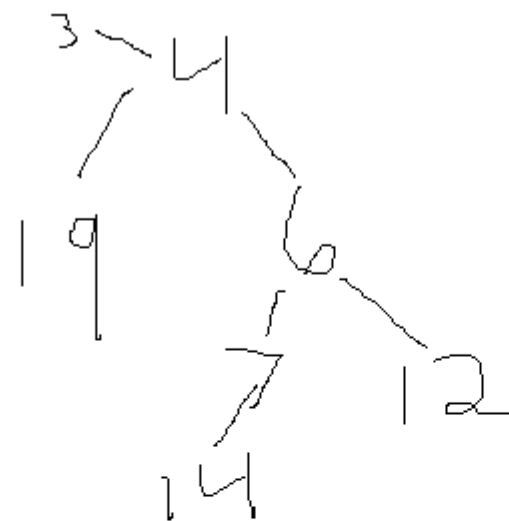
Binary Search Trees

In a binary search tree (BST), every node has the following properties:
- Every element in the left subtree is smaller than the element in the root
- Every element in the right subtree is larger than the element in the root
- Both the left and right subtrees are BSTs

9

6

19

14 12

26

3 4

7 3

19 6

12

7

14

16 18