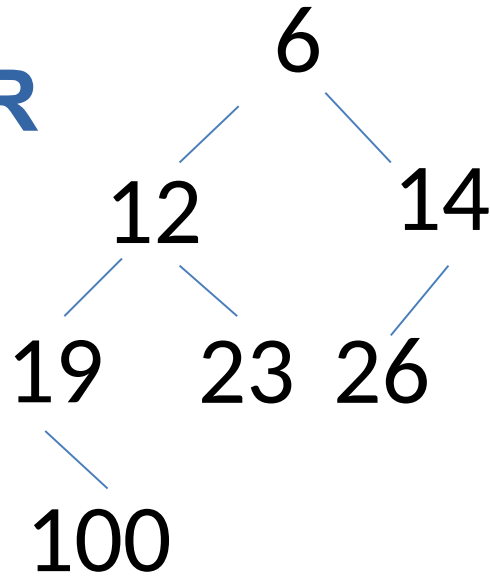
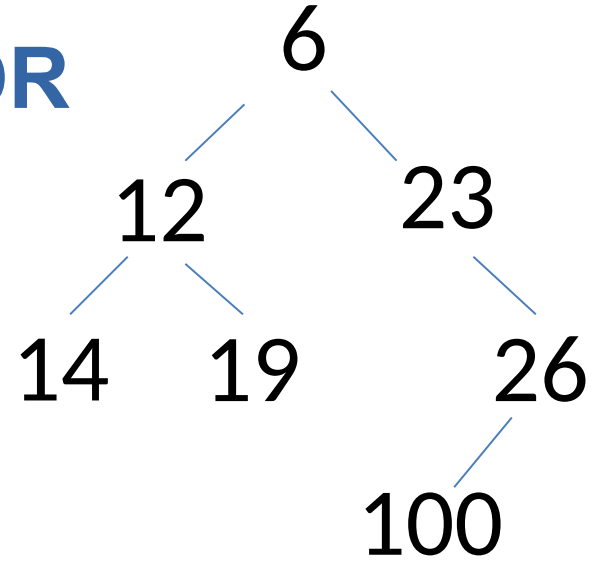


OR




OR



OR ...

Set of all valid solutions

A heap is in the set of all valid solutions if and only if...

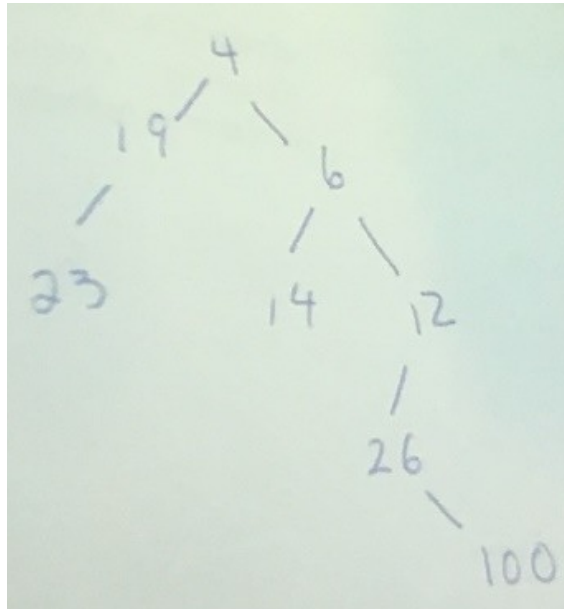
- 
- It is a heap
 - The result contains all the elements from the original heap (the same number of occurrences)
 - The new element has been added (`addEltTester`) or the smallest element removed (`remMinEltTester`)
 - No elements are in the result that weren't in the original

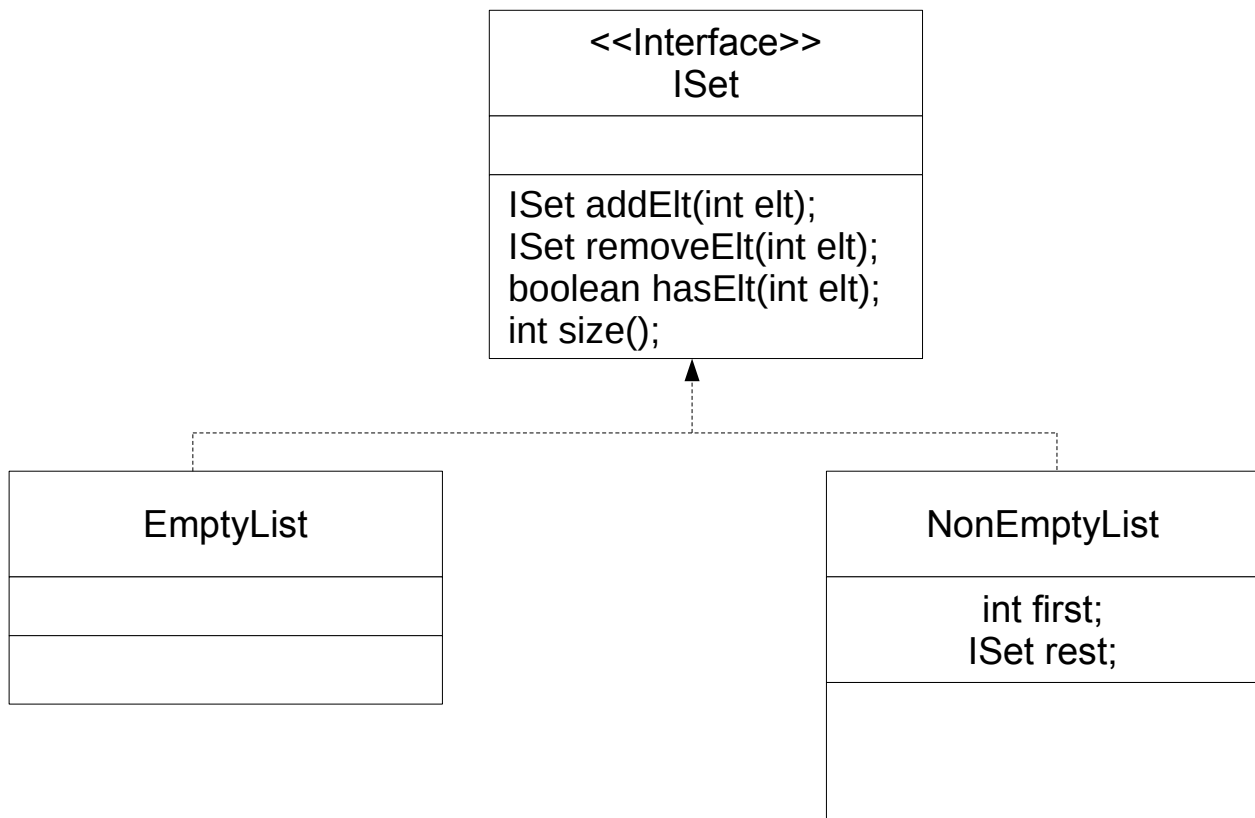


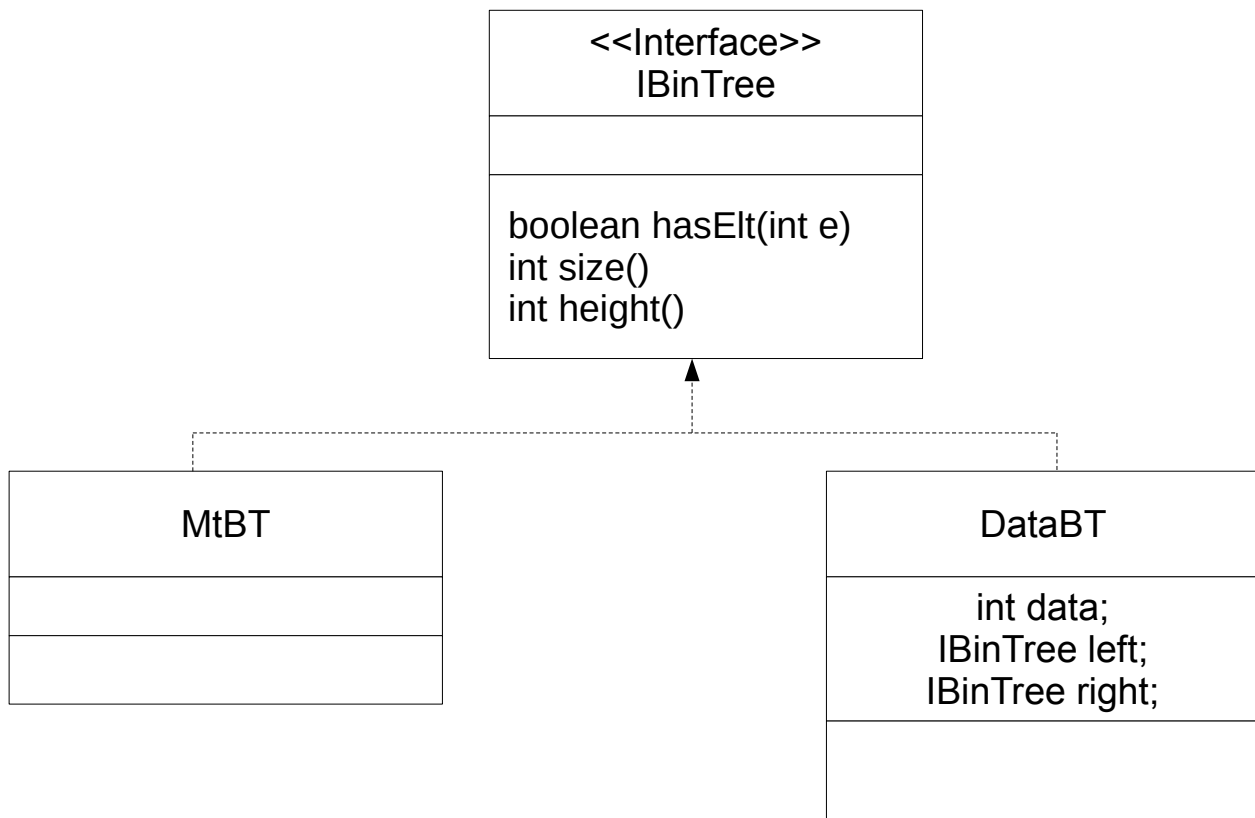
This is Homework 4

Heaps

A heap is a binary tree (NOT a BST) such that the smallest item is the root of the tree and the left and right subtrees are heaps.







Warnings

- Avoid type-checking, i.e.
 - `instanceof`
 - **casting**
 - `getClass()`
 - `static`
- **Do not call** `addElt()` **in** `addEltTester()` **or** `remMinElt()` **in** `remMinEltTester()`