

Software Workshop - Lecture 6 & 7

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Binary search trees using composite pattern

We can implement binary search trees using the composite pattern as follows:

- Interface `Bst` which defines the methods to implement
- Class `Empty` which defines the empty tree
- Class `Fork` which defines a tree with a root and a left and right subtrees

The primitive operators are:

- `root` which gives back the root
- `left` which returns the left subtree
- `right` which return the right subtree
- `isEmpty` which returns true if a tree is empty, false otherwise

A note on the Comparable interface