

Lab 5

Binary Search Trees.

Write code for the following methods of binary search trees.

(1) SEARCH(x, k) (recursion and iterative version); (20%)

(2) SUCCESSOR(x) and PREDECESSOR(x); (30%)

(3) INORDER-TREE-WALK(T), PRERDER-TREE-WALK(T), POSTORDER-TREE-WALK(T); (50%)

Note. T points the root of a binary search tree, x points any node in a binary search tress, and k denotes a key.