Lab 5

Write code for the following methods of binary search trees.

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

(2) MINIMUN(x) and MAXIMUN(x); (10%)

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

(4) INSERT(T,z); (20%)

(5) DELETE(T,z). (30%)

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