Week 6
Binary Search Tree

Preliminary: Class lecture

Workshop: Constructing the binary search tree data structure

Materials:

- BST.py
- BST.pdf (the lecture note)

1) Study the definition of class node.
    - The Binary Search Tree begins with only “root = None”.
    - Class node defines the fundamental element of the binary search tree

2) Develop your own codes for the rest of the operations, which are
    - Finding the node whose key matches the specified value.
    - Finding the node with minimum key and finding the node with maximum key
    - Finding the successor node of the a given node
    - Inserting a new node into the binary search tree
    - Deleting a specified node from the binary search tree

    For each operation developed, create a few test codes to verify that the operation functions correctly.

3) How may you check a created binary tree for whether it satisfies the “binary search tree” property?