Programming Assignment 5

Due by 5월 3일 저녁 9시

- 1. Implement add(), delete(), print_inorder(), height() and submit "backend-bst.c". DO NOT CHANGE ANYTHING ELSE.
- 2. For this programming assignment, we implement the address book with a binary search tree. As always, data is the pointer to the binary search tree that stores the data for the address book.
- 3. Note that we have a new command "H" and "h" that prints the height of the BST for the Address Book. By definition, the height of an empty binary tree is -1!
- 4. Note that we adopt "≤ or >" rule when we add a key. That is, when we add a key that is already in the BST, the new key is added to the left subtree of the node of the already existing key.
- 5. We implement our own memory management almost the same way as before. The only difference is that the nodes have a different structure and size; a node has two links. As before, new_node() returns NULL when the pool is empty.
- 6. The function delete() is the most difficult part of this assignment. There can be many ways to implement it, but you should stick to "replace with successor" rule.