Binary Search Trees

In this lab your goal is to implement standard operations on **binary search trees**, including insert and delete. See section 12.3 in the textbook. In this assignment the keys are integers.

The input contains one of the following commands on a line:

- **i key** — Insert **key** into the BST. For example, "**i 2**" means "Insert key 2 into the BST".

- **d key** — Delete **key** from the BST. For example, "**d 2**" means "Delete key 2 from the BST". Do nothing if the BST does not contain the key.

- **pre** — Output all keys in preorder.

- **post** — Output all keys in postorder.

- **in** — Output all keys in inorder.

- **e** — Finish your program.