Checklist

	Date	Task
☑	1st March 2022	Coded the insert and search method
☑	2nd March 2022	Made the in-order, delete and kth smallest element code.
☐	3rd March 2022	Coded the tests and demonstration updated the logbook. Extra credit AVL tree implementation

Logbook notes

Before March 1 2022: made some snippets of code here and there for the project. Read through the guidelines and instructions and made a rough implementation and logic guide for the project.

March 1 2022: Made a node class and and a BST class. Added some code in both the classes. Made an interface called GenericTrees

March 2 2022: Made all the methods for the BST class. Made a helper node class .Since the node class is nested inside the BST class it doesn't need to take any generics. Updated the logbook

CSDS 233 Logbook

- Checklist
- Notes

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Implementing a BST tree from scratch

void insert(T key, V value) – inserts a node containing key with associated value in the BST
• V search(T key) – searches for a node with a specific key in the BST. In the case where a tree contains
duplicates, search returns the first node encountered.
• void delete(T key) – deletes a node containing key from the BST if it exists
• List<V> inorderRec() – returns a list of values in inorder traversal of the BST implemented using
recursion
• V kthSmallest(int k) – find the kth smallest element in the BST