

Binary Search Trees

Objectives

- Be able to implement data structures binary search tree using linked list and recursion.

Instructions

This programming assignment is intended to help you understand the data structure “Binary Search Tree (BST)” and the implementation using linked list and recursion. You are given four files: book.h, library.h, library.cpp and a client program. Below are the requirements for this assignment.

1. You are not allowed to change the client program (main()) and class declarations.
2. Some functions are only partially completed. You need to fully complete all the functions.
3. Use the algorithms described in class.
4. Study the sample programs given in the textbook (Section 8.5) before starting working on this assignment. It would save you a lot of time.
5. Verify the program output manually.
6. Need to start as early as possible. No last minute miracle for this assignment.
7. The deadline would not be extended.
8. Zip all the files into a single file and submit to the Blackboard.