Data Structure Assignment 5

Programming Homework

Text P.260 NO.1

1. Write a C function to delete the element with key *k* form a binary search tree. What is the time complexity of your function?

Program

1. Get input to build binary search tree
2. There is a character ',' between elements (ex: 16,5,31,49,44,2,7,6,82)
3. Binary search tree 請每一層為一行,元素之間以空格隔開,若該位置沒有元素請用'*'來代表
4. The element k may not in the tree.

Readme

1. Your readme document should include program architecture, program function, how you design your program and the time complexity of your function.
2. You need to explain your answer.

Sample

Input:

16,5,31,49,44,2,7,6,82

Output:

Create Binary search tree

16

5　　31

2　7　*　　49

*　*　6　*　*　*　44　82

Delete element?(Y/N) : Y

Choice element: 7

Binary search tree

16

5　　31

2　6　*　　49

*　*　*　*　*　*　44　82

Delete element?(Y/N) : Y

Choice element: 4

4 is not in the tree

Delete element?(Y/N) : N

General Information:s

- Deadline：2017/12/15 23:55.
- Upload your assignment to Moodle system.
- Upload file format: Student-Id_Name.rar , Ex.P76991094_王小明.rar
- Your file should consist of the following items: Source Code &Readme file (Program description)
- Late homework will not be accepted.
- Any copies will be scored as zero. Do not plagiarize
- Programming homework TA 張維婷 Email: p76051098@mail.ncku.edu.tw