자료구조론 CC343_2207

Programming assignment 7

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Programming Example

1번

Enter your option : 1

Enter the value of the new node (no more node = -1) : 11

Enter the value of the new node (no more node = -1) : -1

2번

3번

4번

 Enter your option : 5

The smallest element is : 10

******** MAIN MENU ********

6번

Enter your option: 6

The largest element is: 89

7번

Enter your option: 7 Enter the element to be deleted : 11 The node 11 has been successfully deleted from the tree! ****** MAIN MENU ******* 1. Insert Elements 2. Preorder Traversal 3. Inorder Traversal 4. Postorder Traversal
5. Find the smallest Element
6. Find the largest Element 6. Find the largest Element
7. Delete an Element
8. Count the total number of nodes
9. Count the total number of external nodes
10. Count the total number of internal nodes
11. Determine the height of the tree
12. Find the mirror image of the tree
13. Delete the tree
14. Exit Enter your option: 2 The elements of the tree in Preorder are : 15 39 12 10 34 32 56 54 78 67 89 81 ****** MAIN MENU *****

8번

14. EXIL

Enter your option: 8

The total number of nodes = 12 ****** MAIN MENU ******* Enter your option : 9
The total number of external nodes = 5
******** MAIN MENU ********

10번

11번

12번

I4. Exit
Enter your option : 12
The tree has been mirrored!

********** MAIN MENU *********

13번

Enter your option: 13
The tree has been destroyed!

********* MAIN MENU ********

1. Insert Elements
2. Preorder Traversal
3. Inorder Traversal
4. Postorder Traversal
5. Find the smallest Element
6. Find the largest Element
7. Delete an Element
8. Count the total number of nodes
9. Count the total number of external nodes
10. Count the total number of internal nodes
11. Determine the height of the tree
12. Find the mirror image of the tree
13. Delete the tree
14. Exit

Enter your option: 2
System: The tree is empty! Build the tree...