

```

1  #include <stdio.h>
2  #include <stdlib.h>
3
4  struct node {
5      int data;
6
7      struct node *leftChild;
8      struct node *rightChild;
9  };
10
11 struct node *root = NULL;
12
13 void insert(int data) {
14     struct node *tempNode = (struct node*) malloc(sizeof(struct
15     struct node *current;
16     struct node *parent;
17
18     tempNode->data = data;
19     tempNode->leftChild = NULL;
20     tempNode->rightChild = NULL;
21
22     //if tree is empty
23     if(root == NULL) {
24         root = tempNode;
25     } else {
26         current = root;
27         parent = NULL;

```

## Compilation results...

```

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- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\SRIKANTH\Documents\Custom Office Templates\program 14.exe
- Output Size: 129.8173828125 KiB
- Compilation Time: 0.25s

```

C:\Users\SRIKANTH\Documents\Custom Office Templates\program 14.exe

Visiting elements: 27 35 [31] Element found.

Visiting elements: 27 14 19 [ x ] Element not found (15).

Preorder traversal: 27 14 10 19 35 31 42

Inorder traversal: 10 14 19 27 31 35 42

Post order traversal: 10 19 14 31 42 35 27

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Process exited after 2.082 seconds with return value 0

Press any key to continue . . .