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Activity-8

```
#include <stdio.h>
#include <stdlib.h>

struct node
{
    char data;
    struct node *rchild;
    struct node *lchild; };

struct node* insert_node(char data)
{
    struct node *p;
    p = malloc(sizeof(struct node));
    p->data = data;
    p->lchild = NULL;
    p->rchild = NULL;

    return(p);
}

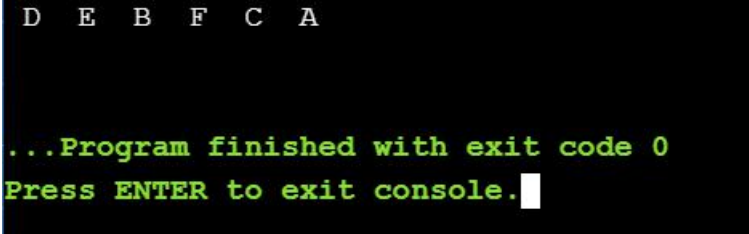
void postorder(struct node *root)
{
    if(root!=NULL)
    {
        postorder(root->lchild);
        postorder(root->rchild);
        printf(" %c ", root->data);
    }
}

int leaf(struct node *a)
{
    if(a->rchild==NULL && a->lchild==NULL)
        return 1;
    return 0;
}

int get_max(int a, int b)
{
    return (a>b) ? a : b;
}

int main()
{
    struct node *root;
    root = insert_node('A');
    root->lchild = insert_node('B');
    root->rchild = insert_node('C');
    root->lchild->lchild = insert_node('D');
    root->lchild->rchild = insert_node('E');
    root->rchild->lchild = insert_node('F');
```

```
    postorder(root);  
    printf("\n");  
  
    return 0;  
}
```



A terminal window with a black background and green text. The first line shows the output 'D E B F C A' with spaces between the letters. The second line shows the message '...Program finished with exit code 0'. The third line shows the prompt 'Press ENTER to exit console.' followed by a white cursor block.

```
D E B F C A  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```