

```
struct node
{
```

```
    int key;
```

```
    struct node * left;
```

```
    struct node * right;
}

```

```
struct node* create(int data)
{
```

```
    struct node * temp;
```

```
    temp = (struct node *) malloc (sizeof (struct node));
```

```
    temp -> key = data;
```

```
    temp -> left = temp -> right = NULL;
```

```
    return temp;
```

```
}

```

```
void insert ( struct node * root, struct node * temp)
{
```

```
    if (temp -> key < root -> key)
    {
```

```
        if (root -> left != NULL)
```

```
            insert (root -> left, temp);
```

```
        else
```

```
            root -> left = temp;
```

```
    }

```

```
    if (temp -> key > root -> key)
    {
```

```
        if (root -> right != NULL)
```

```
            insert (root -> right, temp);
```

```
        else
```

```
            root -> right = temp;
```

```
    }
}

```

```

void inorder (struct node * root)
{
    if (root != NULL)

```

```

{
    inorder (root -> left);
    printf("%d", root -> key);
    inorder (root -> right);
}
}

```

```

void preorder (struct node * root)
{

```

```

    if (root != NULL)
    {
        printf("%d", root -> key);
        preorder (root -> left);
        preorder (root -> right);
    }
}

```

```

void postorder (struct node * root)
{

```

```

    if (root != NULL)
    {
        postorder (root -> left);
        postorder (root -> right);
        printf("%d", root -> key);
    }
}

```

```

int main ()
{

```

```

    char ch;
    struct node * root = NULL, * temp;

```

do {

kemp = create(data);

if (root == NULL)

root = kemp;

else

insert(root, kemp);

printf("Do you want to enter more (Y/N)? ");

getchar();

scanf("%c", &ch);

} while (ch == 'y' || ch == 'Y');

return 0;

}