

```

#include <stdio.h>
#include <malloc.h>

typedef struct Node {
    int data;
    struct Node *left, *right;
} Node;

Node *newNode (int data) {
    Node *temp = (Node*) malloc (sizeof (Node));
    temp->data = data;
    temp->left = temp->right = NULL;
    return temp;
}

void inorder (Node *root) {
    if (root != NULL) {
        inorder (root->left);
        printf (" %d ", root->data);
        inorder (root->right);
    }
}

void preorder (Node *root) {
    if (root != NULL) {
        printf (" %d ", root->data);
        inorder (root->left);
        inorder (root->right);
    }
}

void postorder (Node *root) {
    if (root != NULL) {

```

```

inorder (root -> left);
inorder (root -> right);
printf("%d", root -> data);

```

```

}
}

```

```

node *insert (node *node, int data) {

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    if (node == NULL)

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```

        return newNode (data);

```

```

    if (data < node -> data)

```

```

        if (data < node -> data)

```

```

            node -> left = insert (node -> left, data);

```

```

    else

```

```

        node -> right = insert (node -> right, data);

```

```

    return node;
}

```

```

}

```

```

int main (void) {

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    node *root = NULL;

```

```

    root = insert (root, 20);

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    root = insert (root, 10

```

```

    root = insert (root, 12

```

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    root = insert (root, 9

```

```

    root = insert (root, 16

```

```

    root = insert (root, 8

```

```

    root = insert (root, 28

```

```

    root = insert (root, 100);

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```

    root = insert (root, 2000);

```

```

    printf ("Inorder traversal : \n");
    inorder (root);

```

```

}

```

printf ("In preorden traversal: \n");

preorden (root);

printf ("In postorden traversal: \n");

postorden (root);

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