

```

1: #include<stdio.h>
2: #include<malloc.h>
3:
4: struct node{
5:     int data;
6:     struct node* left;
7:     struct node* right;
8: };
9:
10: struct node* createNode(int data){
11:     struct node *n; // creating a node pointer
12:     n = (struct node *) malloc(sizeof(struct node)); // Allocating
13:     n->data = data; // Setting the data
14:     n->left = NULL; // Setting the left and right children to NULL
15:     n->right = NULL; // Setting the left and right children to NULL
16:     return n; // Finally returning the created node
17: }
18:
19: void preOrder(struct node* root){
20:     if(root!=NULL){
21:         printf("%d ", root->data);
22:         preOrder(root->left);
23:         preOrder(root->right);
24:     }
25: }
26:
27: int main(){
28:
29:     // Constructing the root node - Using Function (Recommended)
30:     struct node *p = createNode(4);
31:     struct node *p1 = createNode(1);
32:     struct node *p2 = createNode(6);
33:     struct node *p3 = createNode(5);
34:     struct node *p4 = createNode(2);
35:     // Finally The tree looks like this:
36:     //      4
37:     //     / \
38:     //    1  6
39:     //   / \

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40:      // 5  2
41:
42:      // Linking the root node with left and right children
43:      p->left = p1;
44:      p->right = p2;
45:      p1->left = p3;
46:      p1->right = p4;
47:
48:      preOrder(p);
49:      return 0;
50:  }
51:
```