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1: // C program to find maximum and minimum in a Binary Tree
 2: #include <limits.h>
 3: #include <stdio.h>
4: #include <stdlib.h>
 5:
6: // A tree node
7: struct Node {
8:
        int data:
        struct Node *left, *right;
9:
10: };
11:
12: // A utility function to create a new node
13: struct Node* newNode(int data)
14: {
15:
        struct Node* node
16:
            = (struct Node*)malloc(sizeof(struct Node));
17:
        node->data = data;
        node->left = node->right = NULL;
18:
19:
        return (node);
20: }
21:
22: // Returns maximum value in a given Binary Tree
23: int findMax(struct Node* root)
24: {
25:
       // Base case
26:
        if (root == NULL)
27:
            return INT MIN;
28:
29:
       // Return maximum of 3 values:
30:
       // 1) Root's data 2) Max in Left Subtree
        // 3) Max in right subtree
31:
32:
        int res = root->data;
33:
        int lres = findMax(root->left);
34:
        int rres = findMax(root->right);
35:
        if (lres > res)
36:
            res = lres;
37:
        if (rres > res)
38:
            res = rres;
39:
        return res;
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40: }
41:
42: // Returns minimum value in a given Binary Tree
43: int findMin(struct Node* root)
44: {
45:
        // Base case
46:
        if (root == NULL)
47:
        return INT MAX;
48:
49:
        // Return minimum of 3 values:
50:
        // 1) Root's data 2) Max in Left Subtree
51:
        // 3) Max in right subtree
52:
        int res = root->data:
53:
        int lres = findMin(root->left);
54:
        int rres = findMin(root->right);
55:
        if (lres < res)</pre>
56:
        res = lres;
57:
        if (rres < res)</pre>
58:
        res = rres;
59:
        return res:
60: }
61:
62:
63: // Driver code
64: int main(void)
65: {
66:
        struct Node* NewRoot = NULL;
67:
        struct Node* root = newNode(2);
68:
        root->left = newNode(7);
69:
        root->right = newNode(5);
70:
        root->left->right = newNode(6);
71:
        root->left->right->left = newNode(1);
72:
        root->left->right->right = newNode(11);
73:
        root->right->right = newNode(9);
74:
        root->right->right->left = newNode(4);
75:
76:
        // Function call
77:
        printf("Maximum element is %d \n", findMax(root));
        printf("Minimum element is %d \n", findMin(root));
78:
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79:
80:    return 0;
81: }
82:
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