

tree.c [bst] - Code::Blocks 20.03

File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

INT_MAX

Management Projects Files FSymbols Workspace bst Sources

tree.c X

```
1 #include<stdio.h>
2 #include<malloc.h>
3 #include<stdlib.h>
4
5 typedef struct BST{
6     int data;
7     struct BST*left;
8     struct BST *right;
9 }node;
10
11 node* create(){
12     node *temp;
13     printf("Enter the node data:");
14     temp = (node*)malloc(sizeof(node));
15     scanf("%d",&temp->data);
16     temp->left = temp->right = NULL;
17     return temp;
18 }
19
20 void insert(node* root, node *temp)
21 {
22     if(temp->data<root->data)
23     {
24         if(root->left != NULL)
25             insert(root->left, temp);
26         else
27             root->left = temp;
28     }
29     if(temp->data>root->data){
30         if(root->right != NULL)
31             insert(root->right, temp);
32         else
33             root->right = temp;
34     }
35 }
36
37 void inorder(node *root)
38 {
39     if(root != NULL)
40     {
```

D:\BM23CS245\bst\bin\Debug\bst.exe

Enter the node data:20
do you want to insert more? (y/n)y
Enter the node data:25
do you want to insert more? (y/n)y
Enter the node data:15
do you want to insert more? (y/n)y
Enter the node data:10
do you want to insert more? (y/n)y
Enter the node data:5
do you want to insert more? (y/n)y
Enter the node data:35
do you want to insert more? (y/n)n

Preorder traversal:
 20 5 10 15 25 35
Inorder traversal:
 5 10 15 20 25 35
Postorder traversal:
 5 10 15 25 35 20
Process returned 0 (0x0) execution time : 32.047 s
Press any key to continue.

Logs & others

Code::Blocks X Search results X Cccc X Build log X Build messages X CppCheck/Vera++ X CppCheck/Vera++ messages X Cscope X Debugger X DoxyBlocks X Fortran info X Closed files list X Thread search X

Set variable: PATH=.;C:\MinGW\bin;C:\MinGW\bin;C:\Windows\System32;C:\Windows\System32\wbem;C:\Users\Admin\AppData\Local\Programs\Python\Python312\Scripts;C:\Users\Admin\AppData\Local\Programs\Python\Python312;C:\Program Files\Oracle\Java\javapath;C:\Windows\System32\WindowsPowerShell\v1.0;C:\Windows\System32\OpenSSH;C:\Program Files\CodeBlocks\MinGW\bin;C:\Users\Admin\Downloads\mongosh-1.6.2-win32-x64 (1)\mongosh-1.6.2-win32-x64\bin;C:\Users\Admin\Downloads\mongosh-1.6.2-win32-x64 (1)\mongosh-1.6.2-win32-x64\bin;C:\Program Files\Java\jdk-19\bin;C:\Program Files\Docker\Docker\resources\bin;C:\Program Files\nodejs;C:\ProgramData\chocolatey\bin;C:\Program Files\Git\cmd;C:\Users\Admin\anaconda3;C:\Users\Admin\anaconda3\Library\mingw-w64\bin;C:\Users\Admin\anaconda3\Library\usr\bin;C:\Users\Admin\anaconda3\Library\bin;C:\Users\Admin\anaconda3\Scripts;C:\Program Files\MySQL\MySQL Shell 8.0\bin;C:\Users\Admin\AppData\Local\Microsoft\WindowsApps;C:\Program Files\MySQL\MySQL Workbench 8.0;C:\Users\Admin\AppData\Local\Programs\Microsoft VS Code\bin;D:\MONGODB\mongosh-1.6.2-win32-x64\mongosh-1.6.2-win32-x64;D:\MONGODB\mongosh-1.6.2-win32-x64\mongosh-1.6.2-win32-x64\bin;C:\Users\Admin\AppData\Local\GitHubDesktop\bin;C:\Users\Admin\AppData\Local\Programs\mongosh;C:\Program Files\R\R-4.3.3\bin;C:\Users\Admin\AppData\Roaming\npm;C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.4\bin
Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "D:\BM23CS245\bst\bin\Debug\bst.exe" (in D:\BM23CS245\bst\.)

D:\BM23CS245\bst\tree.c

C/C++ Windows (CR+LF) WINDOWS-1252 Line 92, Col 1, Pos 1763 Insert Read/Write default

10:49 04-12-2024

tree.c [bst] - Code::Blocks 20.03

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INT_MAX

Management

Workspace

bst

Sources

tree.c

```
37 void inorder(node *root)
38 {
39     if(root != NULL)
40     {
41         inorder(root->left);
42         printf("%t\t%d", root->data);
43         inorder(root->right);
44     }
45 }
46
47 void preorder(node *root)
48 {
49     if(root != NULL)
50     {
51         printf("%t\t%d", root->data);
52         inorder(root->left);
53         inorder(root->right);
54     }
55 }
56
57 void postorder(node *root)
58 {
59     if(root != NULL)
60     {
61         inorder(root->left);
62         inorder(root->right);
63         printf("%t\t%d", root->data);
64     }
65 }
66
67 int main()
68 {
69     node* temp, *root = NULL;
70     char c;
71     do{
72         temp = create();
73
74         if(root == NULL)
75             root = temp;
76     } else
```

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D:\IBM23CS245\bst\tree.c

Search - Navy Day

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