

Online C Compiler - Programiz

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C Online Compiler

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main.c

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Run

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 typedef struct Node {
4     int data;
5     char color; // 'R' for red, 'B' for black
6     struct Node* left;
7     struct Node* right;
8     struct Node* parent;
9 } Node;
10
11 Node* createNode(int data) {
12     Node* newNode = malloc(sizeof(Node));
13     newNode->data = data;
14     newNode->color = 'R';
15     newNode->left = newNode->right = newNode->parent = NULL;
16     return newNode;
17 }
18 void insertNode(Node** root, int data) {
19     Node* newNode = createNode(data);
20     if (*root == NULL) {
21         *root = newNode;
22     } else {
23         Node* y = NULL;
24         Node* x = *root;
25         while (x != NULL) {
26             y = x;
27             if (newNode->data < x->data) {
28                 x = x->left;
29             } else {
30                 x = x->right;
```

Output

Clear

```
/tmp/pBIpXrWYQv.o
2 R
3 R
5 R
8 R
9 R

=== Code Execution Successful ===
```

JS

Go

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