```
#include<stdlib.h>
#include<stdio.h>
struct bin_tree {
int data;
struct bin_tree * right, * left;
};
typedef struct bin_tree node;
void insert(node ** tree, int val)
{
  node *temp = NULL;
  if(!(*tree))
  {
    temp = (node *)malloc(sizeof(node));
    temp->left = temp->right = NULL;
    temp->data = val;
    *tree = temp;
    return;
  }
  if(val < (*tree)->data)
  {
    insert(&(*tree)->left, val);
  }
  else if(val > (*tree)->data)
  {
    insert(&(*tree)->right, val);
  }
}
```

```
void deltree(node * tree)
{
  if (tree)
  {
    deltree(tree->left);
    deltree(tree->right);
    free(tree);
 }
}
node* search(node ** tree, int val)
{
  if(!(*tree))
  {
    return NULL;
  }
  if(val < (*tree)->data)
  {
    search(&((*tree)->left), val);
  }
  else if(val > (*tree)->data)
    search(&((*tree)->right), val);
  else if(val == (*tree)->data)
    return *tree;
```

```
}
}
void main()
{
  node *root;
  node *tmp;
   int i;
  root = NULL;
  insert(&root, 2);
  insert(&root, 41);
  insert(&root, 9);
  insert(&root, 18);
  insert(&root, 6);
  insert(&root, 7);
  insert(&root, 14);
  tmp = search(&root, 4);
  if (tmp)
  {
    printf("Searched node=%d\n", tmp->data);
  }
  else
  {
    printf("Data Not found in tree.\n");
  }
  deltree(root);
}
```