Sorted array to BST :

#include <stdio.h>

#include <stdlib.h>

struct node

{

int data;

struct node \*left;

struct node \*right;

};

struct node \*newnode(int data)

{

struct node \*temp=(struct node\*)malloc(sizeof(struct node));

temp->data=data;

temp->left=NULL;

temp->right=NULL;

return temp;

}

struct node \*sortedtobst(int arr[],int start,int end)

{

if(start>end)

return NULL;

int mid=(start+end)/2;

struct node \*root=newnode(arr[mid]);

root->left=sortedtobst(arr,start,mid-1);

root->right=sortedtobst(arr,mid+1,end);

return root;

}

void inorder(struct node \*root)

{

if(root==NULL)

return;

printf("%d",root->data);

inorder(root->left);

inorder(root->right);

}

int main() {

int arr[] = {1, 2, 3, 4, 5, 6, 7};

int n=sizeof(arr)/sizeof(arr[0]);

struct node \*root=sortedtobst(arr,0,n-1);

inorder(root);

return 0;