QUIZ 10

By filling in the blanks, write a recursive method that prints the level of the first occurrence of a given number in a binary tree. If the node is not found, the method does not print anything. Iterative solutions will not be accepted.

printLevel(root, 8, 1); //prints “2”
printLevel(root, 4, 1); //prints “5”
printLevel(root, 9, 1); //prints “4”
printLevel(root, 12, 1); //prints nothing

```c
struct node {
    int value;
    struct node *left;
    struct node *right;
};

void printLevel(struct node* root, int number, int level){
    if(root == NULL) return;
    if(root->value == number) printf(“%d”, level);
    printLevel(root->left, number, level+1);
    printLevel(root->right, number, level+1);
}
```