

5. Write a function which returns the number of leaf nodes in a binary search tree. The prototype is below:

```
int numLeafNodes(struct treenode* root) {
```

```
}
```

6. What does the following function do?

```
struct treenode* q6(struct treenode* root, int x) {
```

```
    if (root == NULL)
        return NULL;
```

```
    if (root->data > x) {
```

```
        struct treenode* tmp = q6(root->left, x);
```

```
        if (tmp == NULL)
```

```
            return root;
```

```
        else
```

```
            return tmp;
```

```
    }
```

```
    else
```

```
        return q6(root->right, x);
```

```
}
```