

# Exercises 6

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## 6.4

```
int sizeOfGenTree(GTNode<E>* u) {  
    if (u->isLeaf()) return 1;  
    return sizeOfGenTree(u->leftmostChild()) + sizeOfGenTree(u->  
        rightSibling()) + 1;  
}  
int size(GenTree<E>* tree) {  
    return sizeOfGenTree(tree->root());  
}
```

## 6.12

```
GenTree<E>* conversion(GTNode<E>* root) {  
    GenTree<E>* ret;  
    ret->root = root;  
    if (root->isLeaf()) return ret;  
    ret->newroot(root->value(), conversion(root->leftmostChild())->  
        root, conversion(root->rightSibling())->root);  
    return ret;  
}
```