

Name:

1. (20 Points) Below is the header for a simple binary tree class designed to store integers, and a node class for use by the binary tree. Modify the header to use templates, allowing the tree to store values of any type. (You need not actually implement any of the class methods.)

```
class Node {
    int key;
    Node * left;
    Node * right;
};

class BinTree {
private:
    Node * head;
public:
    BinTree();
    ~BinTree();
    void Insert(int v);
    void Delete(int v);
    bool Lookup(int v);
};
```

2. (10 Points) Five differences between C and C++ were discussed in class. Name at least two of them.