```
struct Ratio
{ private:
    int num, den;
};
```

So the difference between a class and a C++ struct is really just cosmetic.

10.11 POINTERS TO OBJECTS

In many applications, it is advantageous to use pointers to objects (and structs). Here is a simple example:

EXAMPLE 10.12 Using Pointers to Objects

Since p is a pointer to an X object, *p is an X object, and (*p).data accesses its **public** member data. Note that parentheses are required in the expression (*p).data because the direct member selection operator "." has higher precedence than the dereferencing operator "*". (See Appendix C.)

```
The two notations (*p).data
```

p->data

have the same meaning. When working with pointers, the "arrow" symbol "->" is preferred because it is simpler and it suggests "the thing to which p points."

Here is a more important example:

EXAMPLE 10.13 A Node Class for Linked Lists

```
class Node
{ public:
    Node(int d, Node* p=0) : data(d), next(p) { }
    int data;
    Node* next;
};
This defines a Node class each of whose objects contain an int data member and a next pointer.
    int main()
{ int n;
    Node* p;
```