Chapter - 28
C++'s Dustier Corners
Less used features of C++

**do/while**

```c
do {
    statement
    statement
} while (expression);

goto
```

```c

found:
```
Why do we fail to print an error for bad commands?

```cpp
int main() {
    switch (value) {
    case 1:
    case 2:
    case 3:
        cout << endl; // Print newline
        break;
    default:
        break;
    }
    return (0);
}
```
More features

The ?: Construct

(expression) ? expr1 : expr2

Example:
amount_owed = (balance < 0) ? 0 : balance;

The , Operator

if (total < 0) {
    std::cout << "You owe nothing\n";
    total = 0;
}

Is the same as:
if (total < 0)
    std::cout << "You owe nothing\n", total = 0;

Except the first version is clearer.
Overloading the () operator

class example {
    public:
        int operator () (int i) {
            return (i*2);
        }
};

// ....
example example_var;

j = example_var(3);
// j is assigned the value 6 (3*2)
Pointers to members

```cpp
class sample {
    public:

        int j;
};

int sample::* data_ptr;

    data_ptr = &sample::*i;

sample a_sample; // A typical sample
sample b_sample;

std::cout << a_sample.*data_ptr << '\n';
std::cout << b_sample.*data_ptr << '\n';

std::cout << a_sample.*data_ptr << '\n';

sample *sample_ptr = &sample1;

std::cout << sample_ptr->*data_ptr << '\n';
```