

Chapter - 28

C++'s Dustier Corners

Less used features of C++

```
do {
    do/while
    statement
    statement
} while (expression);
goto

}

}

exit(8);
```

found:

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

```
int main() {  
  
    default:  
        break;  
    }  
}
```

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

```
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';
```