left paren

var (value of bal)

## Crafting A Compiler 3.1 main(){ const float payment = 384.00; float bal; int month=0; bal = 15000;while (bal>0){ printf("Month: %2d Balance:%10.2f\n", month bal); bal = bal - payment + 0.015\*bal;month= month+1; } } **TOKEN STREAM:** main right paren left paren left bracket const float var (value of payment) assignment digit (value of 384.00) float var (value of bal) int var (value of month) assignment digit (value of 0) var (value of bal) assignment digit (value of 15000) while

```
digit (value of 0)
right paren
left bracket
printf
left paren
String (value of "Month: %2d Balance:%10.2f\n")
var (value of month)
var (value of bal)
right paren
var (value of bal)
assign
var (value of bal)
var (value of payment)
digit (value of 0.015)
var (value of bal)
var (value of month)
assignment
var (value of month)
digit (value of 1)
right bracket
right bracket
```

## Dragons

## 1.1.4

The advantage to using C as a target language for a compiler is that C is platform independent, runs fast, and is very malleable to do what you want it to.

1.6.1

```
int w, x, y, z;
int i = 4; int j = 5;
{    int j = 7;
    i = 6;
    w = i + j;
}
x = i + j;
{    int i = 8;
    y = i + j;
}
z = i + j;
(a) Code for Exercise 1.6.1
```

w=13

x = 11

y=13

z=11

i=6