```
avg = average(x, y);
```

This statement calls average, then saves its return value in the variable avg.

Now, let's use the average function in a complete program. The following program reads three numbers and computes their averages, one pair at a time:

```
Enter three numbers: 3.5 9.6 10.2 Average of 3.5 and 9.6: 6.55 Average of 9.6 and 10.2: 9.9 Average of 3.5 and 10.2: 6.85
```

Among other things, this program shows that a function can be called as often as we need.

```
average.c
```

```
/* Computes pairwise averages of three numbers */
#include <stdio.h>

double average(double a, double b)
{
   return (a + b) / 2;
}

int main(void)
{
   double x, y, z;

   printf("Enter three numbers: ");
   scanf("%lf%lf%lf", &x, &y, &z);
   printf("Average of %g and %g: %g\n", x, y, average(x, y));
   printf("Average of %g and %g: %g\n", y, z, average(y, z));
   printf("Average of %g and %g: %g\n", x, z, average(x, z));
   return 0;
}
```

Notice that I've put the definition of average before main. We'll see in Section 9.2 that putting average after main causes problems.

## PROGRAM Printing a Countdown

Not every function returns a value. For example, a function whose job is to produce output may not need to return anything. To indicate that a function has no return value, we specify that its return type is void. (void is a type with no values.) Consider the following function, which prints the message T minus n and counting, where n is supplied when the function is called:

```
void print_count(int n)
{
   printf("T minus %d and counting\n", n);
}
```