Exercises

Section 2.1

1. Create and run Kernighan and Ritchie's famous "hello, world" program:

```
#include <stdio.h>
int main(void)
{
   printf("hello, world\n");
}
```

Do you get a warning message from the compiler? If so, what's needed to make it go away?

Section 2.2

2. Consider the following program:

```
#include <stdio.h>
int main(void)
{
   printf("Parkinson's Law:\nWork expands so as to ");
   printf("fill the time\n");
   printf("available for its completion.\n");
   return 0;
}
```

- (a) Identify the directives and statements in this program.
- (b) What output does the program produce?

Section 2.4

- W 3. Condense the dweight.c program by (1) replacing the assignments to height, length, and width with initializers and (2) removing the weight variable, instead calculating (volume + 165) / 166 within the last printf.
- W 4. Write a program that declares several int and float variables—without initializing them—and then prints their values. Is there any pattern to the values? (Usually there isn't.)

Section 2.7

- - (a) 100_bottles
 - (b) _100_bottles
 - (c) one hundred bottles
 - (d) bottles_by_the_hundred_
 - 6. Why is it not a good idea for an identifier to contain more than one adjacent underscore (as in current balance, for example)?
 - 7. Which of the following are keywords in C?
 - (a) for
 - (b) If
 - (c) main
 - (d) printf
 - (e) while

W Answer available on the Web at *knking.com/books/c2*.