Programming Projects

- 1. The justify program of Section 15.3 justifies lines by inserting extra spaces between words. The way the write_line function currently works, the words closer to the end of a line tend to have slightly wider gaps between them than the words at the beginning. (For example, the words closer to the end might have three spaces between them, while the words closer to the beginning might be separated by only two spaces.) Improve the program by having write_line alternate between putting the larger gaps at the end of the line and putting them at the beginning of the line.
- 2. Modify the justify program of Section 15.3 by having the read_word function (instead of main) store the * character at the end of a word that's been truncated.
- 3. Modify the qsort.c program of Section 9.6 so that the quicksort and split functions are in a separate file named quicksort.c. Create a header file named quicksort.h that contains prototypes for the two functions and have both qsort.c and quicksort.c include this file.
- 4. Modify the remind.c program of Section 13.5 so that the read_line function is in a separate file named readline.c. Create a header file named readline.h that contains a prototype for the function and have both remind.c and readline.c include this file.
 - 5. Modify Programming Project 6 from Chapter 10 so that it has separate stack.h and stack.c files, as described in Section 15.2.