# Serendipity Booksellers Software Development Project— Part 14: A Problem-Solving Exercise

#### 1. Add the bookMatch Member Function to the BookData Class

Currently the functions lookUpBook, editBook, and deleteBook search the book database for titles that match, or partially match, a search string. Add a member function named bookMatch to the BookData class. The function should accept a string as its argument and return true if the string is found in the book title. If the string is not found in the book title, bookMatch should return false.

## 2. Modify lookUpBook, editBook, and DeleteBook

Currently the lookUpBook, editBook, and deleteBook functions have their own method of comparing book titles with search strings. Modify them so they use the bookMatch function you added to the BookData class in Step 1.

### 3. Modify the Report Module

The reporting capabilities you added in Chapter 9 must now be modified to work with the BookData class.

# 4. Add Other Classes to the Program

Analyze the program for other ways to implement classes. Here are some suggestions:

- Consider whether the various menus could be managed by class objects. Could a class be constructed to hand the program's user interface?
- Analyze the file I/O performed by the program. Could a class be constructed to handle all the file operations?
- Determine if input validation could be performed by a class object.