



## C++ Programming Assignment 5

### Section 1 实现思路

采用自下而上的设计思路：首先设计一个 Book 类，包含书的基本信息——书名、作者、出版社、价格等；接着根据 Book 类中的成员分别设计 Author 类、Publisher 类（调用 Publisher 使用智能指针）。在此基础上依次实现读文件、显示读取情况、读入书库、显示表格（期间出现功能未实现状况直接补充）。最终完成此 Assignment。

### Section 2 测试结果

A screenshot of a C++ program's test results window. The window shows a list of tests on the left, including 'assignment5Test', 'ReadData', 'authors', 'publisher', and 'printTable'. The main area displays the output of the tests, which includes a table of book data. The table has columns for book title, author, genre, price, and publisher. The data is as follows:

Book Title	Author	Genre	Price	Publisher
Data Scientists at Work	Sebastian Gutierrez	data_science	\$23.00	Apress
Slaughterhouse Five	Vonnegut, Kurt	fiction	\$19.80	Random House
Birth of a Theorem	Villani, Cedric	mathematics	\$23.40	Bodley Head
Structure & Interpretation of Computer Programs	Sussman, Gerald	computer_science	\$24.00	MIT Press

The output also shows 'Testing started at 20:30 ...', 'RUNNING TESTS ...', and '<<<SUCCESS>>>'. The bottom of the window indicates '进程已结束,退出代码0'.