



高级语言程序设计

Assignment 5

Section 1: 实验思路

首先：根据题目要求创建 Book, Publisher, Author 三个类，完善类里的成员函数和类中的成员变量，成员变量都是私有的，所以要提供一些接口去访问和改变成员变量。读取 dataset.csv 时采取按行读取的方式，用 string 类中的 find 函数，通过新建一个 string token 用来提取 substr，记录位置 pos 和 pos1 进行 substr 的剪切，要注意””的情况，所以分了情况讨论，排序用快排 sort 即可，输出则控制间距左对齐输出即可，最终通过了 Googletest。

Section 2

```
wyb@ubuntu:~/Documents/Book/build$ ./main
RUNNING TESTS ...
[-----] Running 4 tests from 1 test suite.
[-----] Global test environment set-up.
[-----] 4 tests from assignment5Test
[ RUN      ] assignment5Test.ReadData
[ OK       ] assignment5Test.ReadData (0 ms)
[ RUN      ] assignment5Test.authors
[ OK       ] assignment5Test.authors (0 ms)
[ RUN      ] assignment5Test.publisher
[ OK       ] assignment5Test.publisher (0 ms)
[ RUN      ] assignment5Test.printTable
[ OK       ] assignment5Test.printTable (0 ms)

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
Age of Wrath, The     Eraly, Abraham      history               23.80                Penguin

[ OK ] assignment5Test.pr
[-----] 4 tests from assignment5Test (1 ms total)

[-----] Global test environment tear-down
[-----] 4 tests from 1 test suite ran. (1 ms total)
[ PASSED ] 4 tests.
<<<SUCCESS>>>
wyb@ubuntu:~/Documents/Book/build$
```

图 1: Googletest accepted!