**Test Worth:** 2 pts

**Tester Summary:**

This tester checks student submissions for an added bookstore menu option that allows the user to determine which book in the current cart is the highest ranking amongst the books in the cart. The tester will randomly select one out of five possible groups of indices listed below. It will then test the student’s submission by adding the indices to the cart and selecting option 6 in the bookstore menu (option 6 displays the best-seller title in the cart). The title of the cart best-seller returned by the program must agree with the expected title below:

| **Group** | **Book Indices to Add** | | | | | **Expected Title of Cart Best-Seller** |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | 5838 | 15501 | 23295 | 13015 | 16701 | The Visitor’s Book |
| **2** | 22414 | 23504 | 115 | 13612 | 6919 | Haiti and the United States: The Psychological Moment |
| **3** | 3115 | 6536 | 15724 | 17542 | 14082 | Murder in Belleville (Aimee Leduc Investigation) |
| **4** | 2160 | 14520 | 23861 | 14460 | 10500 | Heaven on Earth |
| **5** | 6263 | 16515 | 9871 | 25122 | 12755 | The Golden Dawn Scrapbook: The Rise and Fall of a Magical Order |

**Tester Input/Output Sample**

* **Input** is highlighted blue
* **Expected output of interest** is highlighted yellow

Adding Group 1 Indices: 5838, 15501, 23295, 13015, 16701

1 Calculator

2 Bookstore System

3 Palindrome Test

0 Exit/Quit

2

s FIFO shopping cart

r Random shopping cart

1 Load book catalog

2 Remove a book by index from catalog

3 Add a book by index to shopping cart

4 Remove from the shopping cart

5 Search book by infix

6 Get cart best-seller

0 Return to main menu

1

Introduce the name of the file: books\_15.txt

Loading 27134 books in 0.1466078758239746 seconds

s FIFO shopping cart

r Random shopping cart

1 Load book catalog

2 Remove a book by index from catalog

3 Add a book by index to shopping cart

4 Remove from the shopping cart

5 Search book by infix

6 Get cart best-seller

0 Return to main menu

3

Introduce the index to add to shopping cart: 5838

Added to shopping cart

Book: 1575669064

Title: The Visitor's Book

Group: Book

Rank: 2032252

0.000997781753540039 seconds

s FIFO shopping cart

r Random shopping cart

1 Load book catalog

2 Remove a book by index from catalog

3 Add a book by index to shopping cart

4 Remove from the shopping cart

5 Search book by infix

6 Get cart best-seller

0 Return to main menu

3

Introduce the index to add to shopping cart: 15501

Added to shopping cart

Book: 6304525729

Title: National Geographic's Killer Wave: Power of the Tsunami

Group: Video

Rank: 14454

0.0019991397857666016 seconds

s FIFO shopping cart

r Random shopping cart

1 Load book catalog

2 Remove a book by index from catalog

3 Add a book by index to shopping cart

4 Remove from the shopping cart

5 Search book by infix

6 Get cart best-seller

0 Return to main menu

3

Introduce the index to add to shopping cart: 23295

Added to shopping cart

Book: 1584650907

Title: Erasure: A Novel

Group: Book

Rank: 447204

0.001007080078125 seconds

s FIFO shopping cart

r Random shopping cart

1 Load book catalog

2 Remove a book by index from catalog

3 Add a book by index to shopping cart

4 Remove from the shopping cart

5 Search book by infix

6 Get cart best-seller

0 Return to main menu

3

Introduce the index to add to shopping cart: 13015

Added to shopping cart

Book: 1580861458

Title: Starting Ballet: Kid Kits (Usborne First Skills)

Group: Book

Rank: 611674

0.001995563507080078 seconds

s FIFO shopping cart

r Random shopping cart

1 Load book catalog

2 Remove a book by index from catalog

3 Add a book by index to shopping cart

4 Remove from the shopping cart

5 Search book by infix

6 Get cart best-seller

0 Return to main menu

3

Introduce the index to add to shopping cart: 16701

Added to shopping cart

Book: 0684811634

Title: Learn to Earn : A Beginner's Guide to the Basics of Investing and Business

Group: Book

Rank: 3781

0.001989126205444336 seconds

s FIFO shopping cart

r Random shopping cart

1 Load book catalog

2 Remove a book by index from catalog

3 Add a book by index to shopping cart

4 Remove from the shopping cart

5 Search book by infix

6 Get cart best-seller

0 Return to main menu

6

getCartBestSeller returned

**The Visitor's Book**

Completed in 0.0 seconds

s FIFO shopping cart

r Random shopping cart

1 Load book catalog

2 Remove a book by index from catalog

3 Add a book by index to shopping cart

4 Remove from the shopping cart

5 Search book by infix

6 Get cart best-seller

0 Return to main menu

0

1 Calculator

2 Bookstore System

3 Palindrome Test

0 Exit/Quit

0

**Tester Feedback to Students:**

Testing bookstore menu option “6 Get cart best-seller”...

Added the following titles to the cart:

Title 1: <insert title of first book>

Title 2: <insert title of second book>

Title 3: <insert title of third book>

Title 4: <insert title of fourth book>

Title 5: <insert title of fifth book>

Expected title of cart best-seller: <insert expected title from table above>

Returned title: <insert title returned by student submission>