CS 420 Final ProjectLibrary Indexing System

short line

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# Introduction

This program is a simple database that can be used to keep track of the inventory of a library. It can store the title of the book, the author and the ISBN-10 reference number. A CSV file can be imported to make inputting large amounts of data easier. It can also export all of the data into a text file.

# Menu

Once the program is started there are a number of options that are available to manipulate data.

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Enter 0 to stop

Enter 1 to import CSV data file

Enter 2 to add a book

Enter 3 to list all books

Enter 4 to remove last book in database

Enter 5 to export database to text file

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# Example Use

# Option one allows the user to import a CSV file. This should be named Data\_Input.txt and put in the same folder as the program. The format is Title, Author, ISBN-10 (each element separated by commas)

# Here is an example of how it looks:

Title, Author, ISBN-10

Moby Dick, Herman Melville, 184022830X

Of Mice and Men, John Steinbeck, 0140177396

1984, George Orwell, 9780451524935

You can then start the program and select option 1 from the menu.

File Data\_Input.txt imported successfully

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These books are now stored in the database.

By selecting option 2, you can manually enter each book.

Option 3 will list of the books in the system.

Option 4 removes the last book in the database.

Option 5 exports the database to a text file in the same format as the import function.

# Exception Handling

When the database is filled beyond a certain limit the overflow exception is triggered. This is currently set to 100 but can be changed to any value.

Likewise, if you attempt to remove an element from the database while it is empty, an underflow exception will be triggered.

