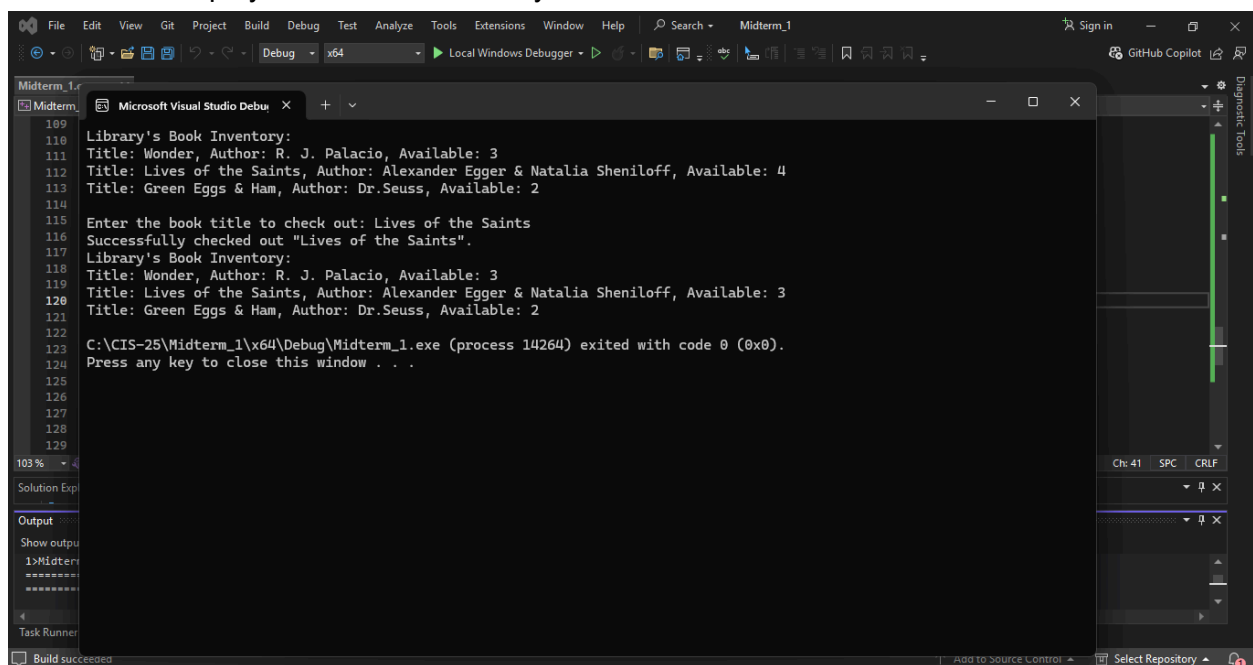


My program is a Library management system that has a collection of books using dynamic memory and prompts/allows users to check out books by title. Inventory is stored in a .txt file so changes persist across sessions. Also uses a binary search to search and checkout the books wanted.

- There are two classes Book and Library
- The code uses string, int, fixed-size arrays, and pointers to dynamic objects
- 'Book* books[50]' is an array of pointers to dynamically allocated the book instances
- Uses binary search-> efficiently finds books by title within a sorted array
- And book titles and authors are stored and manipulated as strings
- Uses .txt file for saving and loading book data with ifstream and ofstream
- My code also has functions like clearInventory() to prevent duplication

I would say the hardest part was handling getline and fixing the code to have clearInventory, because the display showed the inventory twice the first time around.



```
109 Library's Book Inventory:
110 Title: Wonder, Author: R. J. Palacio, Available: 3
111 Title: Lives of the Saints, Author: Alexander Egger & Natalia Sheniloff, Available: 4
112 Title: Green Eggs & Ham, Author: Dr.Seuss, Available: 2
113
114
115 Enter the book title to check out: Lives of the Saints
116 Successfully checked out "Lives of the Saints".
117 Library's Book Inventory:
118 Title: Wonder, Author: R. J. Palacio, Available: 3
119 Title: Lives of the Saints, Author: Alexander Egger & Natalia Sheniloff, Available: 3
120 Title: Green Eggs & Ham, Author: Dr.Seuss, Available: 2
121
122
123 C:\CIS-25\Midterm_1\x64\Debug\Midterm_1.exe (process 14264) exited with code 0 (0x0).
124 Press any key to close this window . . .
125
126
127
128
129
```