Midterm question 1

CRC CARDS

Book Class: Represents an individual book in the library collection and is needed to store book specific information

Responsibilities: Stores information (title, author, ISBN and tracks availability status)

Collaborators: Member Class (books are borrowed or returned and availability status changes), Library Class (Manages the collection and updates availability)

Member Class: Represents a library member who can borrow books, keeps track of who has borrowed the book

Responsibilities: Can borrow up to 3 books at a time, Returns books and updates availability

Collaborators: Library Class (Enforces borrow limit), Book Class (Shows availability)

Library Class: Manages overall collection of books, tracks book availability

Responsibilities: Keep record of borrowed and returned books, Enforces borrow limits

Collaborators: Book Class (Maintains and updates availability), Member class (Enforces borrow limits), Librarian Class (Can modify the book collection and perform administrative duties such as seeing books that have been checked out and who has borrowed them)

Librarian Class: Manages the books and has special privileges, has special tasks

Responsibility: Can add and remove books from the collection, can view book availability and see borrowing records

Collaborators: Book (Can be added or removed if lost or outdated), Library (provides access to book records)