

Lab 10 Design

- class Patron:

+ Attribute: ID, borrow List, checkoutCount

+ Method: get(), check out Add(): add 1 to checkoutCount when check out successfully a book, add Borrow(): when check out, add the ISBN to borrow list, when check in, remove the ISBN.

- class Book:

+ Attribute: ISBN, title, count_(the copies), checkoutCount

+ Method: get(), incrementCount(): add 1 to #copies, decrementCount(): -1 to #copies, addCheck out().

- class Library:

- Attribute:

self._book = { ISBN₁: book₁, ISBN₂: book₂, ... }

self._patron = { ID₁: patron₁, ID₂: patron₂, ... }

self._totalbook, self._popular Book, self._popular Patron

self._checkout, self._checkin.