## Student - name: String - gender: Boolean - studentID: String - maxQuota: Integer - books: Book[] + borrow(x: Book[]): Boolean + return(x: Book[]): Boolean + payFine(): Boolean + updateInfo(): Boolean Librarian - name: String - gender: Boolean - phoneNumber: String - position: String + movetoShelf(x: Book[], shelf: Integer) + addBook(x: Book) + deleteBook(x: Book)

+ banUser(x: Student)

## Book

- name: String - author: String
- author: String - publisher: String
- publicationDate: Date
- pageNum: Integer
- ISBN: String
- category: String - price: Double
- language: String
- format: String
- shelf: Integer
- isBorrowed: Boolean
- readerID: StringloanPeriod: Integer
- timeBorrowed: Date
- expectedDue: Date
- isReference: Boolean
- isiterenee. Boolean
- + lend(x: Student): Boolean + return(x: Student): Boolean
- + modifyRecord()