

Interface

Driver

```
+main(String[]): void
+getBiggestBook(Library.items[]):
  Library.book
+copyBooks(Library.items[]):
  Library.items[]
```

Library

Items {abstract}

```
# IDnums : long
# name : String
# authors : String
# yearOfPublication : Int
# available : boolean
# itemCount : int
# CID : long
```

```
+items(name : String, author : String, year : int)
+items()
+items(i : items)
+getNumberOfPages() : int
+getName() : String
+getAuthor() : String
+getYear() : int
+getID() : String
+getAvailable() : boolean
+getCID() : long
+setName(newName : String) : void
+setAuthor(newAuthor : String) : void
+setYear(newYear : int) : void
+setAvailable(newAvailable : boolean) : void
+setCID(newCID : long) : void
+toString() : String
+equals(o : Object) : boolean
```

Book

```
-numberOfPages: int
-ID: String
```

```
+book(name:String, author:String, year:int,
numberOfPages:int)
+book()
+book(b:book)
+getNumberOfPages():int
+getID():String
+setNumberOfPages(newNumberOfPages:int):void
+toString():String
+equals(otherObject:Object):boolean
```

Journal

```
-volumeNumber:int
-ID:String
```

```
+journal(name:String, author:String, year:int,
volumeNumber:int)
+journal()
+journal(j:journal)
+getVolumeNumber():int
+getNumberOfPages():int
+getID():String
+setVolumeNumber(newVolumeNumber:int):void
+toString():String
+equals(otherObject:Object):boolean
```

Media

```
- type: String
- ID: String
```

```
+ media(name: String, author: String, year: int,
type: String)
+ media()
+ media(m: media)
+ getType(): String
+ getID(): String
+ getNumberOfPages(): int
+ setType(newType: String): void
+ toString(): String
+ equals(otherObject: Object): boolean
```

Clients

Client

```
- clientID: long
- name: String
- phone: long
- email: String
+ leasedItems: Library.items[]
```

```
+ client(name: String, phone: long, email: String)
+ client()
+ client(c: client)
+ leaseItem(i: Library.items): void
+ returnItem(i: Library.items): void
+ getName(): String
+ getPhone(): long
+ getEmail(): String
+ getClientID(): long
+ setName(newName: String): void
+ setPhone(newPhone: long): void
+ setEmail(newEmail: String): void
+ toString(): String
+ equals(otherObject: Object): boolean
```