# public libary system

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**Book**

-id int
-author char
-country char
-pages int
-title char
-year int
-link char
-imagelink char
-copies list

+addCopy() void
+getAvailable() void
+getTotalCopies() void

**Author**

-id int

**Person**

-id int
-name char

0..*

1..*

1

1..*

**BookItem**

-id int
-book Book
-loaned  bool

**Customer**

-id int
-number
-gender
-nameSet
-streetAdress
-zipcode
-city
-emailAdress
-username
-telephoneNumber

+loanBook() void

0..*

**LoanItem**

-customer Customer
-bookItem BookItem

-

1

**Catalog**

-books dict
-authors dict
-bookList list

+seach() void

1

1

1..*

1

**LoanAdministration**

-allCustomers dict
-allBookitems dict
-allLoanedItems list

+addNewCustomer() void
+makeBackup() void
+restoreFromBackup() void