Librarian

name
assignment: BranchLibrary

checkOut(Book,patron)
checkIn(Book)
acquisition(Book)

Book

title: string
authors: seq Author
isbn: ISBN
homeBranch: BranchLibrary

BranchLibrary

inventory: set of Book
stacks: set of Shelf
staff: set of Librarian

addToInventory(Book)
removeFromInventory(Book)

Catalog

authorIndex
subjectIndex
titleIndex

add(Book,BranchLibrary)
search(fieldName:string,value:string): seq CatalogEntry