Input:

```
[number_of_book] //following #number_of_book rows

[book_author] [book_subject]
...

[number_of_user] //following #number_of_user rows

[user_type] [user_name] [predefined_borrow_book_number]/*There will be a predefined number if user_type is borrower.*/
...

//command loop

[Function]
```

Function and Output:

```
//Don't enter "input:" or print "output:" String

1. [user_name1] addBook
input: [book_author] [book_subject]
output: Borrower can not add book//if [user_name1] is a borrower

2. [user_name1] removeBook [book_id]
output: Borrower can not remove book//if [user_name1] is a borrower

3. [user_name1] checkout [user_name2]
```

```
input: [book1 id] [book2 id]...
output: Borrower can not check out the books //if [user_name1] is a borrower
output: Can not check out since the number of books exceed the limitation of
user can check-out /*if amount of books more than[predefined borrow book number] of
[user name2]*/
output: Can not check out since the book is checked out /*if the book is
checked out*/
4. [user name1] return [book id]
output: Borrower can not return book// if [user name1] is a borrower
output: Can not return since the book isn't checked out /*if the book is checked
out
5. [user name1] listAuthor [book author]
output: ID: [book_id] Author: [book_author] Subject: [book_subject]
6. [user name1] listSubject [book subject]
output: ID: [book_id] Author: [book_author] Subject: [book_subject]
7. [user name1] findChecked [user name2]
output: Borrower can not find books checked out by other users /*if
[user name1] is a borrower and [user name1] is not [user name2]*/
output: ID: [book_id] Author: [book_author] Subject: [book_subject]//else
8. [user name1] findBorrower [book id]
```

output: User: [user name]

output: Borrower can not find borrower //if [user name1] is a borrower

Comment:

[user_type] must be one of following: Staff Borrower [book_id] is integer and increases from 0 with sequential order form input. [predefined borrow book number] limit amount of books user can borrow at one time, not total. If some books can't be borrowed since the book is checked out, the others still can be borrowed as long as they satisfy the constraints. format: output: ID: [book id] Author: [book author] Subject: [book subject] should be shown with increasing [book id]

You are asked to write a main function in Class Main



```
// sampleInput file
3
AuthorA SubjectA
AuthorB SubjectB
AuthorC SubjectC
2
Staff UserA
Borrower UserB 2
UserA addBook
AuthorD SubjectD
UserA removeBook 3
UserA checkout UserB
0 1
UserA return 0
UserA listAuthor AuthorA
UserA listSubject SubjectA
UserA findChecked UserB
UserA findBorrower 1
```

// sampleOutput file

ID: 0 Author: AuthorA Subject: SubjectA

ID: 0 Author: AuthorA Subject: SubjectA

ID: 1 Author: AuthorB Subject: SubjectB

User: UserB