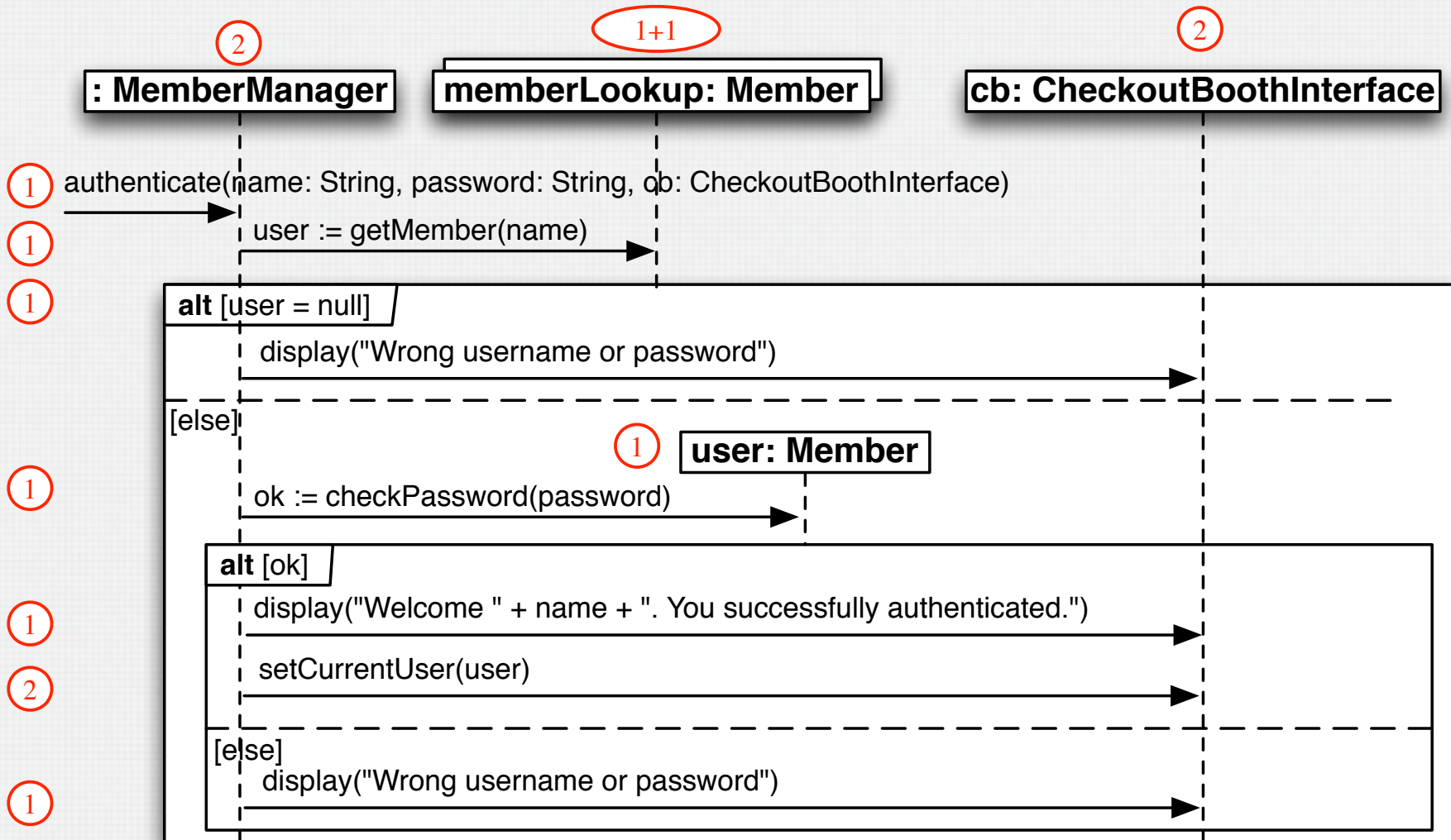


FINAL 2013/2014

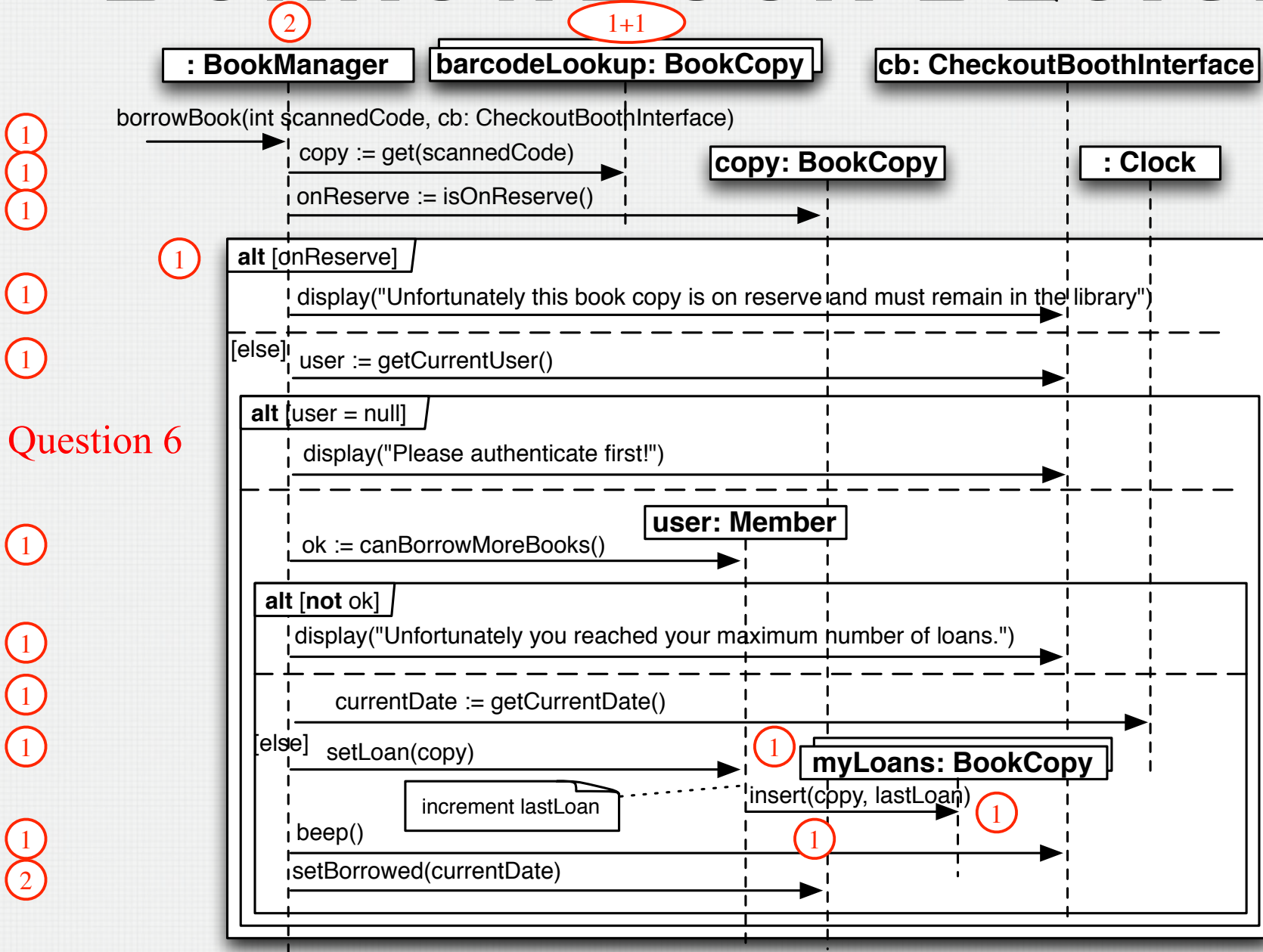
Jörg Kienzle

AUTHENTICATE DESIGN



15 points total + 1 for correct syntax

BORROWBOOK DESIGN



- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 2

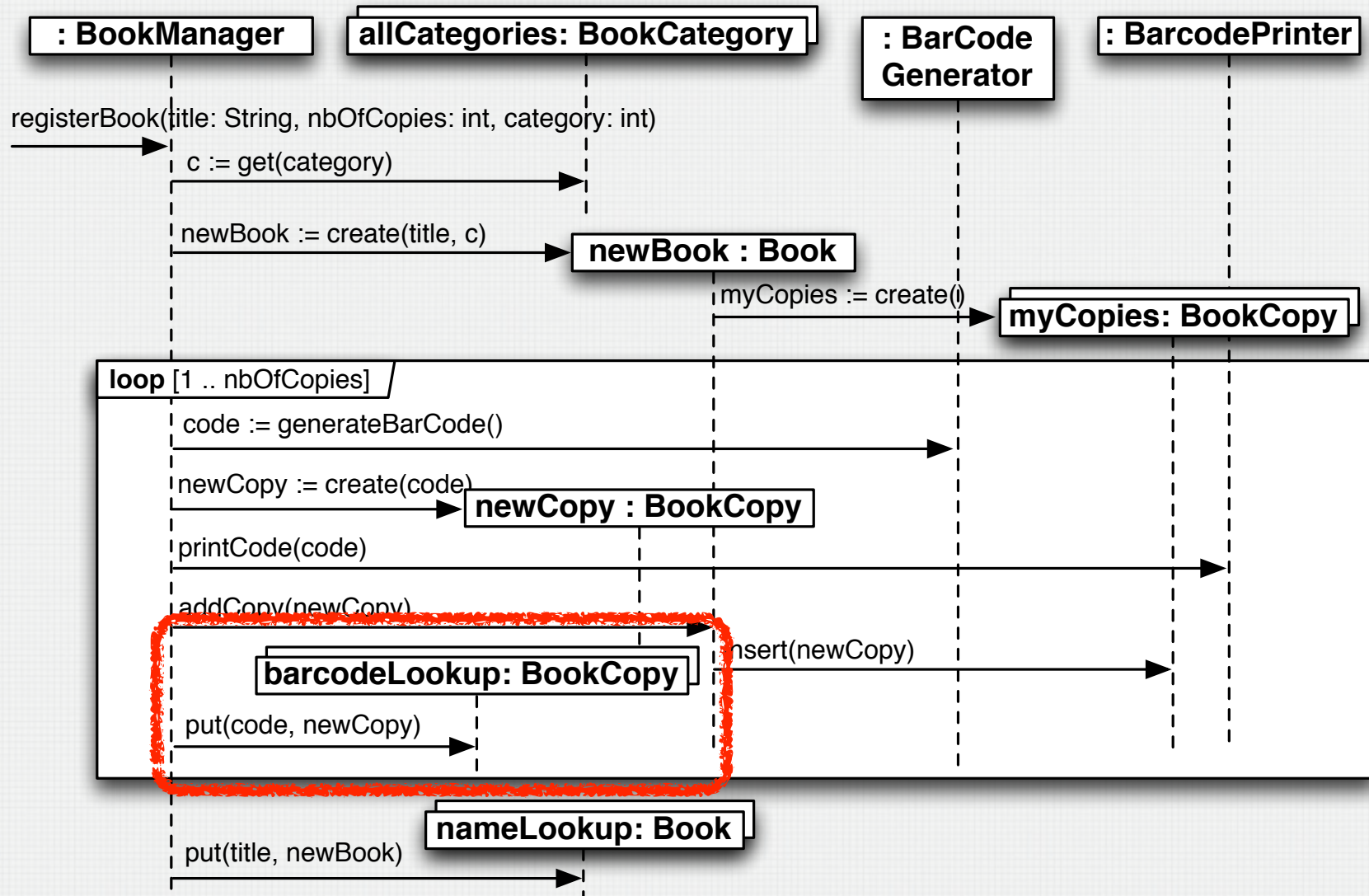
Question 6

20 points total + 1 for correct syntax

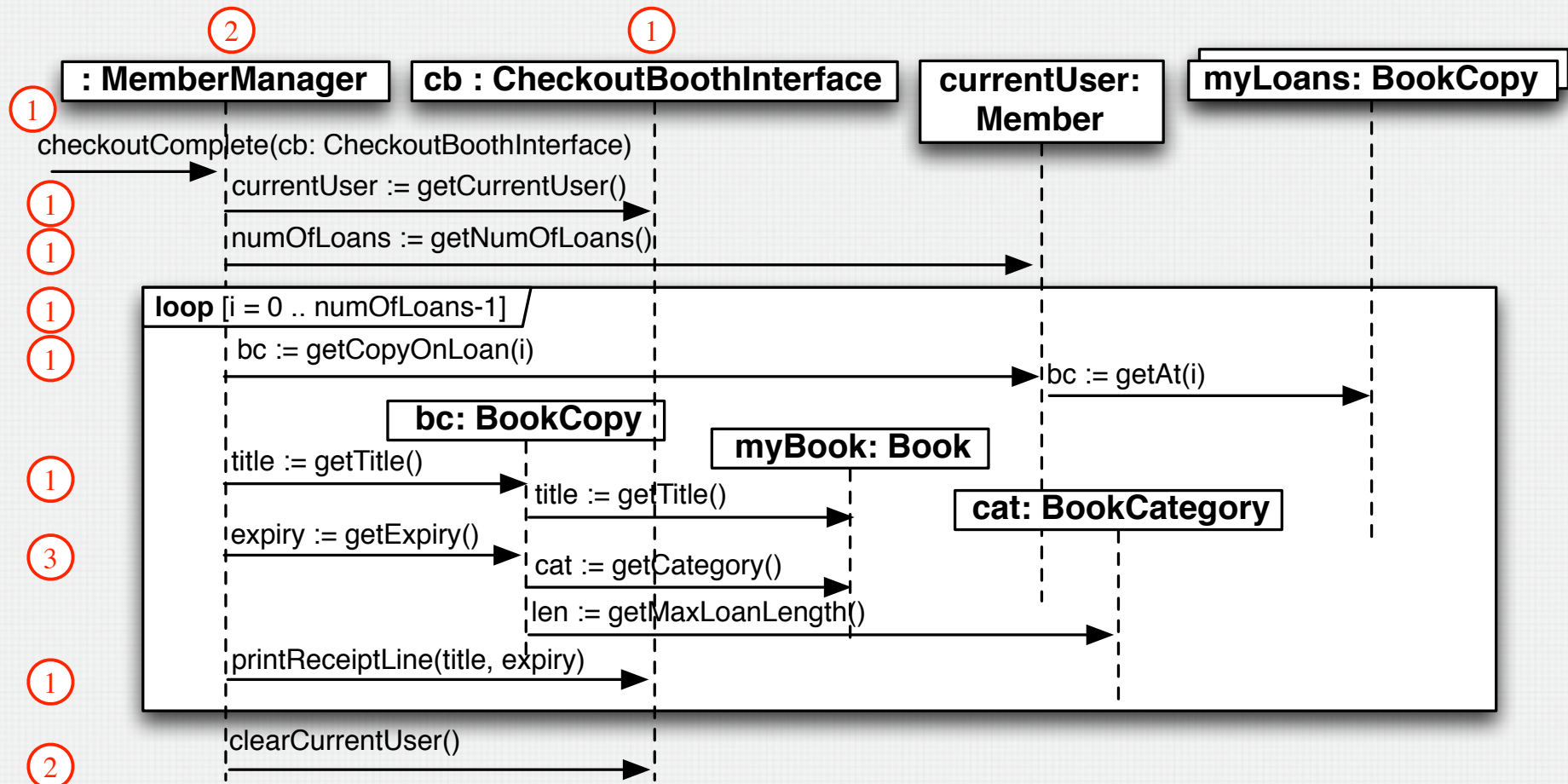
QUESTIONS 2.1 - 2.3

- 2.1 Is it necessary to update `isAvailableForLoan`?
- ③ • No need to update `isAvailableForLoan`
- 2.2 Is it necessary to update `registerBook`?
- ④ • `registerBook` must insert the book copy into the hash table that maps bar codes to book copies
- 2.3 Does the existing design structure need to change?
- ③ • `BookCopy` needs to remember that it is being borrowed. Either:
 - Add a boolean attribute, or
 - Add a reference to the member that borrowed the book

UPDATED REGISTERBOOK

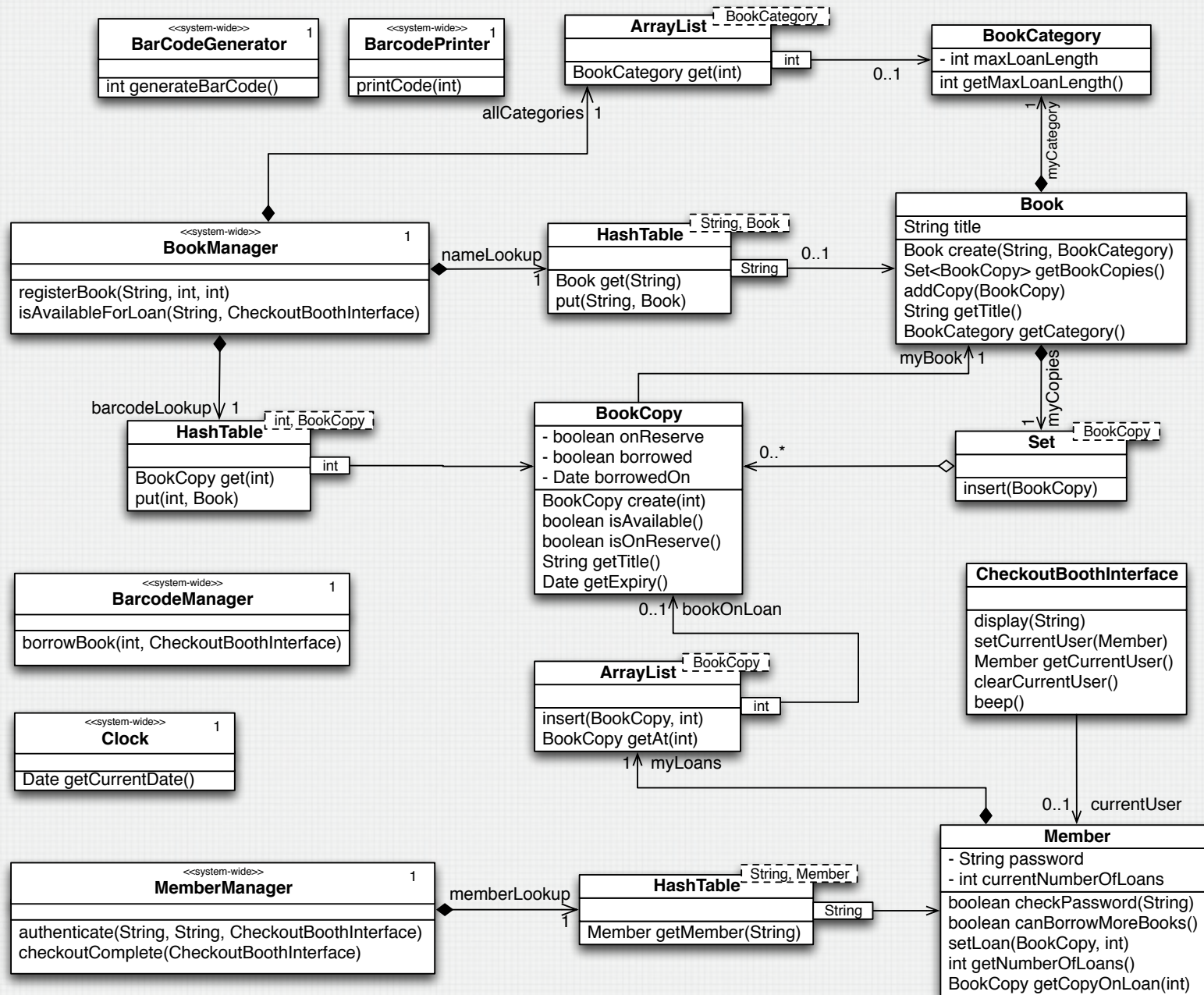


CHECKOUTCOMPLETE DESIGN

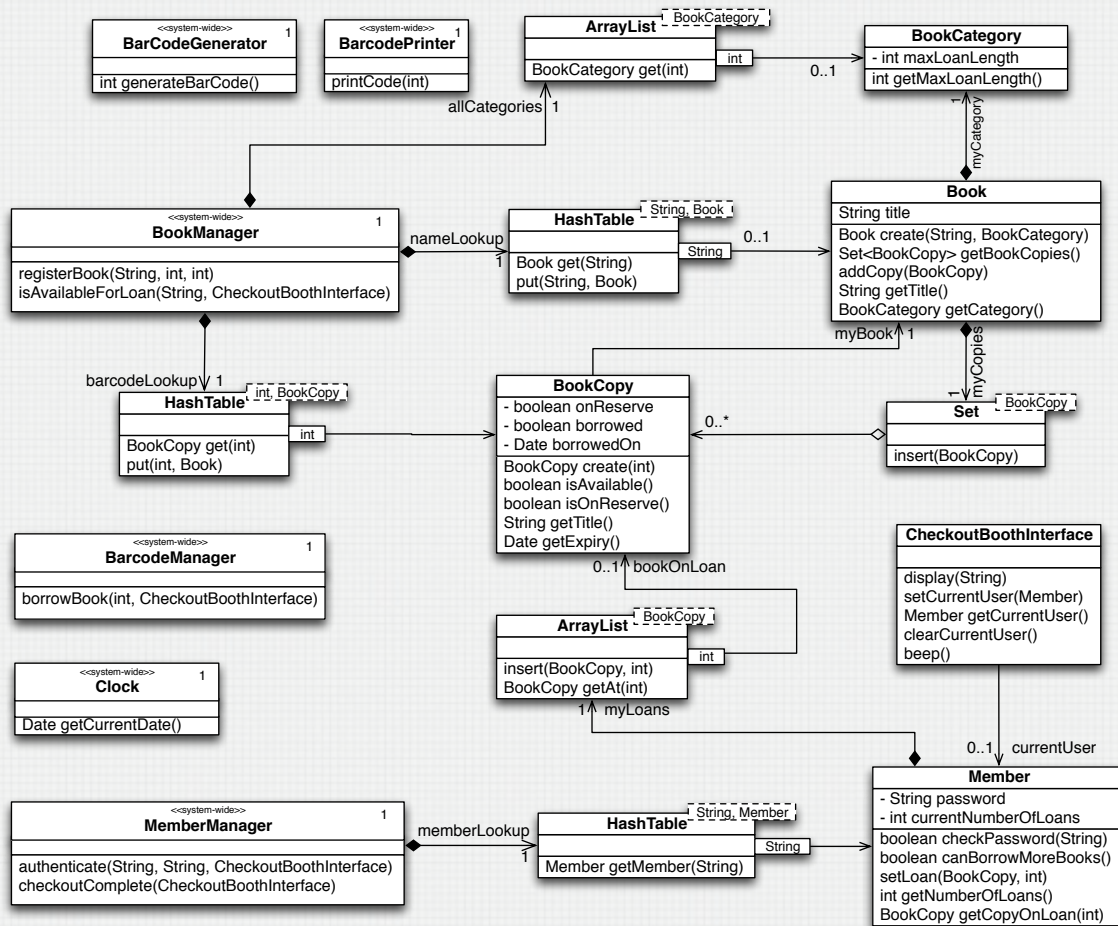


15 points total + 1 for correct syntax

DESIGN CLASS MODEL



DESIGN CLASS MODEL



25 points total + 1 for syntax:

-1 for each missing class (max -8)

-0.5 for each missing operation (max -8)

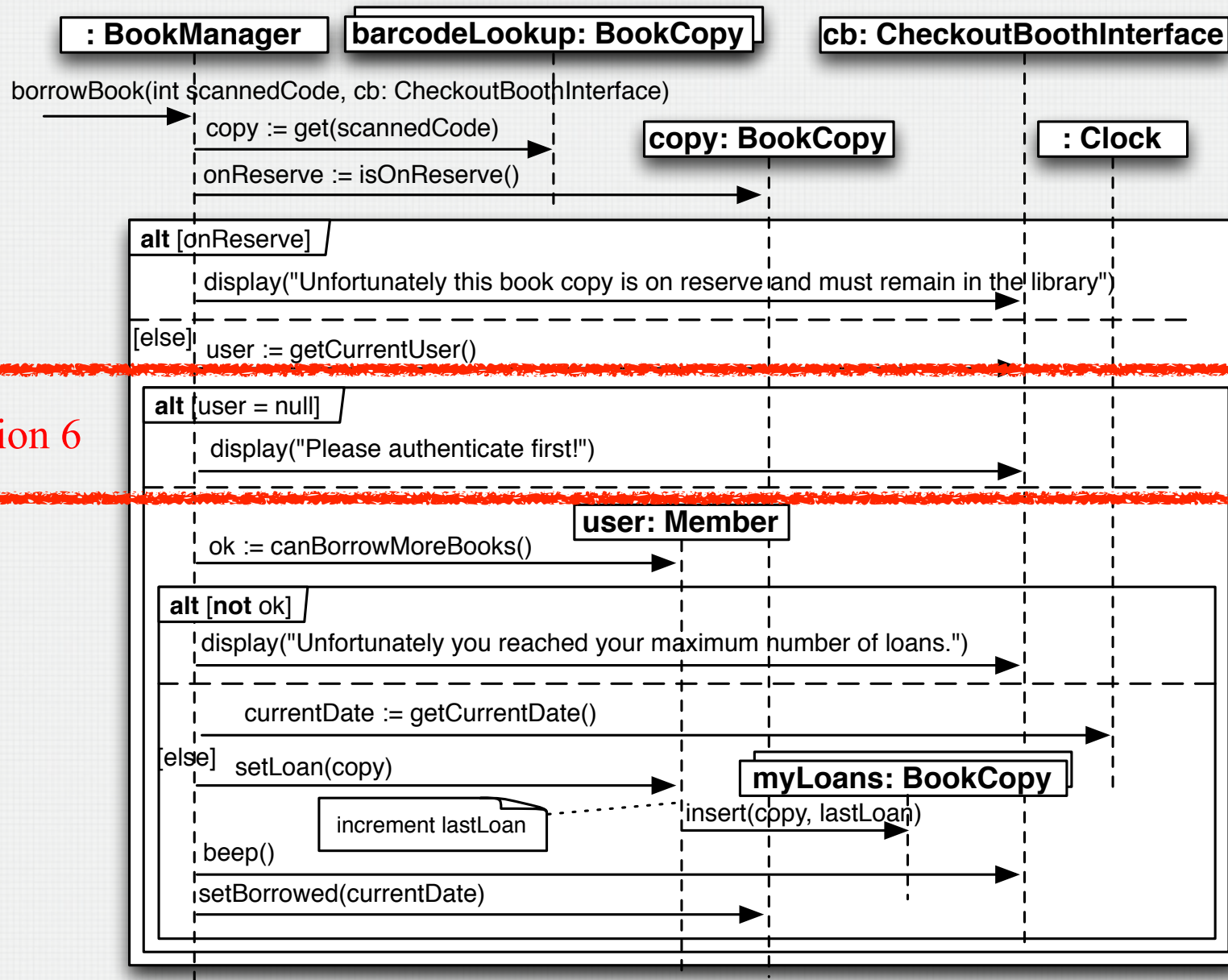
-1 for missing attribute / association (max -6)

-1 for missing <<system-wide>> (max -3)

QUESTIONS 5.1 - 5.3

- 5.1 Which objects are system-wide objects?
 - Maximum 5 points
- 5.2 List all the classes that instantiate other classes
 - Maximum 3 points
- 5.3 Do any of the business classes depend on classes that implement communication with the outside world? If yes, list them, together with kind of dependency
 - Maximum 4 points

BORROWBOOK WITH PM ENFORCEMENT



Question 6

3 points total