





Communication Diagram - Numbering

totalFines = getFinesDue(userID)













1. lu = getUser(userID)

2. totalFines = getFinesDue()

2.1 totalFines = getFinesDue()















2.1.1* Im = get(i)







2.1.2* fine = getFineDue(dueDate)





2.1.2.1* fine = getFineDue(dueDate)





```
getFinesDue(userID) {
   1. lu = getUser(userID)
   2. return(lu.getFinesDue())}
```

LibrarySystem

LibraryUser (2.) getFinesDue() { Checkouts co 2.1 return co.getFinesDue()}

```
Checkouts
(2.1) getFinesDue() {
    double f = 0;
    for each lm in media
    2.1.2 f+= lm.getFineDue(dueDate);
    return f;
```

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```
totalFines = getFinesDue(userID)
                 2. totalFines =
                 getFinesDue(
 lu:LibraryUser
                                  :LibrarySystem
         2.1 totalFines = getFinesDue()
                 2.1.1* lm = get(i)
                                     media: List
  :checkOuts
                                                               2.1 return co.getFinesDue() }
        getFineDue(dueDate)
                                                          (2.1) getFinesDue() {
                                      :LendingPolicy
lm:LibraryMedia
                                        { abstract }
             2.1.2.1* fine =
```

Remember...

- We model to have a conversation.
- We model to learn.
- All models are wrong, and that's ok.
- Never model alone.

