	RentalItem	Customer	RentalRecord	Account	AccountLevel
RentalItem		rents	added to		
Customer	rents		added to	owns	
Rental Record	includes	includes		includes in	
Account		issued by	includes		has a
AccountLevel				has a	

Account Level

Account
openDate

Silver
calcFreeDays()

Gold
calcFreeDays()

Platinum
calcFreeDays()

Customer
name
address

rents 0..1

RentalRecord
calcDueDate()

<>
RentalItem
getRentalTime() <>

Video
price
bonusPoints
getRentalTime()

DVD
price
bonusPoints
getRentalTime()

UML Sequence Diagram — DVD of Rental Item

Lifelines:
- :Customer
- :Rental Record
- :Rental Item
- :Account
- :Account Level

Messages:
- rent DVD
- new (this, DVD)
- calcDueDate ()
- getRentalTime()
- getFreeDays ()
- getFreeDays ()
- addToAccount (this)
- return Rental Record
- print Rental Record

```
Class RentalRecord

public Date calcDueDate( RentalItem rItem, Customer cust) {
    Account thisAcct = cust.getAccount();
    Date now = new Date();
    int rentalDays = rItem.getRentalTime() +
                        thisAcct.getFreeDays();
    // assume Date can easily add rentalDays to now
    return (now + rentalDays);
```