```java
/* Chapter No. 08 - Project No. 03
    File Name:          Chapter08Project03.java
    Programmer:         Andrew Caldwell
    Date Last Modified: Jan. 30, 2014

    Problem Statement:
                Use polymorphism in a program

    Overall Plan
                intialize rentalArray with movieArray
                calculate and print out the total rental fees

    Classes needed and Purpose
    main class - Chapter08Project03
    Rental - rental movie model
    Movie - movie model
        Action - movie model subclass
        Drama - movie model subclass
        Comedy - movie model subclass
        AJTTMoney - money container
        BigDecimal - good precision
        System - streams
        String - arrays of chars

*/

import java.math.BigDecimal;

public class Chapter08Project03 {
        public static int CUS_ID = 254;
        public static void main(String[] args) {
                Movie[] lotr = {new Action("The Fellowship of the Ring", Movie.Rating.G,2)
                , new Comedy("The Two Towers", Movie.Rating.PG,5)
                , new Drama("The Return of the King", Movie.Rating.PG_13,4)};

                Rental[] rentals = new Rental[3];

                for (int i = 0;i < rentals.length;i++)
                        rentals[i] = new Rental(CUS_ID,lotr[i],2*i);
                System.out.format("Customer %d owes %s",CUS_ID,lateFeesOwed(rentals));

        }
        public static AJTTMoney lateFeesOwed(Rental[] rentals) {
                BigDecimal lateFeesOwed = new BigDecimal(0);

                for (Rental r : rentals) {
                        lateFeesOwed = lateFeesOwed.add(r.lateFees().amount());
                }

                return new AJTTMoney(lateFeesOwed);
        }
}
```

```java
import java.math.BigDecimal;

public class Rental {
        private int _daysLate;
        private Movie _movie;
        private int _idNumber;

        Rental() {
                this(0,null,0);
        }
        Rental(int idNumber, Movie movie, int daysLate) {
                setIdNumber(idNumber);
                setMovie(movie);
                setDaysLate(daysLate);
        }

        // ?
        public AJTTMoney lateFees() {
                return this.movie().calcLateFees(this.daysLate());
        }

        // setters
        public void setIdNumber(int idNumber) {
                if (idNumber < 0)
                        throw new IllegalArgumentException("ID number must be greater than zero.");
                _idNumber = idNumber;
        }
        public void setMovie(Movie movie) {
                _movie = movie;
        }
        public void setDaysLate(int daysLate) {
                if (daysLate < 0)
                        throw new IllegalArgumentException("Number of days late be greater than zero."
);
                _daysLate = daysLate;
        }

        // getters
        public int idNumber() {
                return _idNumber;
        }
        public Movie movie() {
                return _movie;
        }
        public int daysLate() {
                return _daysLate;
        }

        // Object
        @Override
        public String toString() {
                return this.getClass().getName() + ":" + idNumber() + ",<" + movie() + ">," + daysLat
e();
        }
}
```

```
○ ○ ○  🗀 fish  /Users/ajcaldwell/Dropbox/School/14/Spring2014/CS112/Week...  ⬈
$ ./build.fish run                                              01/30/14
Running
Customer 254 owes $13.00⏎
$ ▯                                                             01/30/14
```

Test