public class Movie {

public static final int CHILDRENS = 2;

public static final int REGULAR = 0;

public static final int NEW\_RELEASE = 1;

private String \_title;

private int \_priceCode;

public Movie(String title, int priceCode) {

\_title = title;

\_priceCode = priceCode;

}

public int getPriceCode() {

return \_priceCode;

}

public void setPriceCode(int arg) {

\_priceCode = arg;

}

public String getTitle (){

return \_title;

};

}

class Rental {

private Movie \_movie;

private int \_daysRented;

public Rental(Movie movie, int daysRented) {

\_movie = movie;

\_daysRented = daysRented;

}

public int getDaysRented() {

return \_daysRented;

}

public Movie getMovie() {

return \_movie;

}

}

class Customer {

private String \_name;

private Vector \_rentals = new Vector();

public Customer (String name){

\_name = name;

};

public void addRental(Rental arg) {

\_rentals.addElement(arg);

}

public String getName (){

return \_name;

};

public String statement() {

double totalAmount = 0;

int frequentRenterPoints = 0;

Enumeration rentals = \_rentals.elements();

String result = "Rental Record for " + getName() + "\n";

while (rentals.hasMoreElements()) {

double thisAmount = 0;

Rental each = (Rental) rentals.nextElement();

//determine amounts for each line

switch (each.getMovie().getPriceCode()) {

case Movie.REGULAR:

thisAmount += 2;

if (each.getDaysRented() > 2)

thisAmount += (each.getDaysRented() - 2) \* 1.5;

break;

case Movie.NEW\_RELEASE:

thisAmount += each.getDaysRented() \* 3;

break;

case Movie.CHILDRENS:

thisAmount += 1.5;

if (each.getDaysRented() > 3)

thisAmount += (each.getDaysRented() - 3) \* 1.5;

break;

}

// add frequent renter points

frequentRenterPoints ++;

// add bonus for a two day new release rental

if ((each.getMovie().getPriceCode() == Movie.NEW\_RELEASE) &&

each.getDaysRented() > 1) frequentRenterPoints ++;

//show figures for this rental

result += "\t" + each.getMovie().getTitle()+ "\t" +

String.valueOf(thisAmount) + "\n";

totalAmount += thisAmount;

}

//add footer lines

result += "Amount owed is " + String.valueOf(totalAmount) + "\n";

result += "You earned " + String.valueOf(frequentRenterPoints) +

" frequent renter points";

return result;

}