```
import java.awt.*;
import java.awt.event.*;
import java.lang.*;
import java.util.*;

public class Customers
{
    private String _name;
    private Vector _rentals = new Vector();
    public Customers(String name)
    {
        _name=name;
    }
    public void addRental(Rental rental)
    {
        _rentals.addElement(rental);
    }
    public String getName()
    {
        return _name;
    }

    public String statement()
    {
        Enumeration rentals=_rentals.elements();
        String result = "Rental Record for "+getName()+"\n";
        while (rentals.hasMoreElements())
            {
                Rental each=(Rental) rentals.nextElement();
                result +="\t" + each.getMovie().getTitle()+"\t"+
                    String.valueOf(each.getCharge()) +" \n";
            }
        result += "Amount owned is " + String.valueOf(getTotalCharge()) +
            "\n";
        result += "You earned " + String.valueOf(getTotalFrequentRenterPoints())
 +
            " frequent renter points";
        return result;
    }

    public String htmlStatement()
    {
        Enumeration rentals=_rentals.elements();
        String result = "<H1>Rental Record for "+getName()+"</EM></H1><P>\n";
        while (rentals.hasMoreElements())
            {
                Rental each=(Rental) rentals.nextElement();
                result +=each.getMovie().getTitle()+": "+
                    String.valueOf(each.getCharge()) +"<BR>\n";
            }
        result += "<P>Amount owned is <EM>" + String.valueOf(getTotalCharge()) +
            "</EM><P>\n";
        result += "You earned <EM>" + String.valueOf(getTotalFrequentRenterPoint
s()) +
            " </EM>frequent renter points<P>";
        return result;
    }


    private double getTotalCharge()
    {
        double result=0;
```



```
        Enumeration rentals=_rentals.elements();
        while (rentals.hasMoreElements())
            {
                Rental each=(Rental) rentals.nextElement();
                result+=each.getCharge();
            }
        return result;
    }


    private int getTotalFrequentRenterPoints()
    {
        int result=0;
        Enumeration rentals=_rentals.elements();
        while (rentals.hasMoreElements())
            {
                Rental each=(Rental) rentals.nextElement();
                result+=each.getFrequentRenterPoints();
            }
        return result;
    }
}







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 priceCode)
    {
        _priceCode=priceCode;
    }
    public String getTitle()
    {
        return _title;
    }
}
public 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;
    }
    public double getCharge()
    {
        double result=0;
        switch (getMovie().getPriceCode())
            {
            case Movie.REGULAR:
                result+=2;
                if (getDaysRented()>2)
                    {
                        result+=(getDaysRented()-2)*1.5;
                    }
                break;
            case Movie.NEW_RELEASE:
                result += getDaysRented()*3;
                break;
            case Movie.CHILDRENS:
                result += 1.5;
                if(getDaysRented() > 3)
                    result+= (getDaysRented()-3)*1.5;
                break;
            }
        return result;
    }

    public int getFrequentRenterPoints()
    {
        if( (getMovie().getPriceCode()== Movie.NEW_RELEASE)
            && (getDaysRented()>1))
            return 2;
        else
            return 1;
    }
}

import java.lang.*;
import java.util.*;

public class TestProg
{
    public static void main( String[] argv)
    {
        Movie m1=new Movie(new String("Xmen       "),Movie.NEW_RELEASE);
        Movie m2=new Movie(new String("Gladiators"),Movie.REGULAR);
        Movie m3=new Movie(new String("Mulan      "),Movie.CHILDRENS);

        Customers c1=new Customers(new String("Rémi"));
        Customers c2=new Customers(new String("Sebastien"));
        Customers c3=new Customers(new String("Laurent"));

        c1.addRental(new Rental(m1,4));
```



```
        c1.addRental(new Rental(m2,1));
        c1.addRental(new Rental(m3,7));

        c2.addRental(new Rental(m1,1));
        c2.addRental(new Rental(m2,2));

        c3.addRental(new Rental(m1,8));
        c3.addRental(new Rental(m2,10));
        c3.addRental(new Rental(m3,1));

        System.out.println(c1.statement());
        System.out.println(c2.statement());
        System.out.println(c3.statement());
    }
}
```