

## Junior Knights OOP Homework Assignment: Net-Flicks

### Problem Statement

Write a Movie class that manages information about a movie. After you have written your Movie class, you will write a separate class that will utilize Movie objects.

Here are the instance variables for your Movie class:

```
private String title;  
private double ticketPrice;  
private double numViewers;  
private double grossRevenue;
```

The methods your Movie class must have are:

```
// Creates an new Movie object that has never been seen,  
// with an original ticket price of price.  
public Movie(String movieTitle, double price);  
  
// Returns the title of the current object.  
public String getTitle();  
  
// Returns the ticket price of the current object.  
public double getTicketPrice();  
  
// Returns the total number of viewers for the current  
// object.  
public int getNumViewers();  
  
// Returns the gross revenue of the current object.  
public double getGrossRevenue();  
  
// Sells numTickets number of tickets for the current  
// Movie object. If numTickets is negative, no tickets  
// are sold.  
public void sellTickets(int numTickets);  
  
// Gives away numTickets number of tickets away for free  
// for the current Movie object. If numTickets is  
// negative, no tickets are given away.  
public void giveFreeTickets(int numTickets);
```

```

// Returns true iff the gross revenue of the current
// object exceeds $100,000,000.
public boolean bigHit();

// Creates a new Movie object with the same title as the
// original with "Dos" concatenated to the end of it. The
// ticket price will be one dollar less than that of the
// current Movie object.
public Movie makeSequel();

// Increases the price a ticket to the current Movie object
// by increase number of dollars. If increase is negative,
// no change is made to the ticket price.
public void upTicketPrice(double increase);

// Sets the price of a ticket to the current Movie object
// to one dollar.
public void moveToDollarTheater();

// Returns a string representation of the current object.
// In a reasonable fashion, this includes the title,
// total number of viewers and gross revenue.
public String toString();

// Returns a negative integer if the current movie object
// has a smaller gross revenue than m, returns 0 if its
// revenue is equal to m's revenue, and returns a positive
// integer if its revenue is greater than m's.
public int compareTo(Movie m);

```

### **Testing**

To test your movie class, we've written a program called `movieApp.java`. This program reads in information from a file, creates movie objects, will call your movie methods and calculate various statistics about some movies. To see if you've written your methods correctly, just compile and run `movieApp.java` and see if your output matches the desired posted output. There are two pairs of input/output files:

```

movie1.txt, movie1.out
movit2.txt, movie2.out

```

So that you understand the general format of these input files, you will have access to the assignment `movieApp` (but will not have to write that class, since we've given it to you.)