

Junior Knights Description: More Movies (movieApp)

Note: This assignment is already written for you so you can test your solution to Movie.java.

The Problem

Now that you've written a Movie class, you will utilize it in the following program, which should be stored in a file named TestMovie.java.

Here's a description of what this program should do:

Your program should prompt the user for the name of an input file. This input file will contain results for the sales of two movies. For each line in the input file, you will output a single line to the screen reporting on the effect of that line of input.

File Format

The first line of the file contains a String (with no white space) representing the name of an original movie followed by a positive real number representing the original ticket price for the movie. The second line of the input file contains a single integer, n , representing the number of lines remaining in the input file. The following n lines will start with an integer on the line (in between 1 and 3, inclusive), representing the following actions:

- 1 - Selling tickets for the original movie
- 2 - Selling tickets for the sequel of the original movie
- 3 - Giving away tickets for the original movie
- 4 - Giving away tickets for the sequel of the original movie
- 5 - Increases the ticket price of the original movie
- 6 - Increases the ticket price of the sequel
- 7 - Moves the original movie to the dollar theater
- 8 - Moves the sequel to the dollar theater

Depending on the first number on one of these lines, the rest of the line will contain the following information:

If the number is 1 or 2: The second number on the line will be a positive integer representing the number of tickets sold.

If the number is 3 or 4: The second number on the line will be a positive integer representing the number of tickets given away for free.

If the number is 5 or 6: The second number on the line will be a positive real number representing the increase in ticket price in dollars.

If the number is 7 or 8: No extra number will be on the line since this action is completely specified.

Sample Input File

```
FantasticFour 7.95
10
1 100000
2 800000
3 200000
6 2.50
2 300000
7
1 2000000
2 10000
1 10000
1 10000
```

Output Format

Your program will read in the name of the movie and create a Movie object with that information. Then you will create another Movie object that is the sequel of the original movie. Then, you will process each remaining line in the input file. For each of these lines, you will create one line of output to the screen. This will be followed by summary information.

Here are the formats for the output for each input instruction:

If the number is 1 or 2: Write out a statement of the form

```
X sold Y tickets and has currently made Z dollars.
```

where X is the name of the movie, Y is the number of tickets sold for THAT instruction, and Z is the gross revenue of the movie for its whole run.

If the number is 3 or 4: Write out a statement of the form

```
X gave away Y tickets and has had Z number of viewers.
```

where X is the name of the movie, Y is the number of tickets sold for THAT instruction, and Z is the gross revenue of the movie for its whole run.

If the number is 5 or 6: Write out a statement of the form

```
The ticket price for X has risen to Y dollars.
```

where X is the name of the movie and Y is its new ticket price.

If the number is 7 or 8: Write out a statement of the form

X has gone to the dollar theater!

where X is the name of the movie.

After you have finished reading in and processing the file, print out the relevant information about each movie. Then print out whether or not each movie was a big hit. Finally, print out the title of the "winning" movie. Look at the sample output for the format of these lines.

Sample Output

FantasticFour sold 100000 tickets and has currently made 795000.0 dollars.

FantasticFourDos sold 800000 tickets and has currently made 5560000.0 dollars.

FantasticFour gave away 200000 tickets and has had 300000 number of viewers.

The ticket price for FantasticFourDos has risen to 9.45 dollars.

FantasticFourDos sold 300000 tickets and has currently made 8395000.0 dollars.

FantasticFour has gone to the dollar theater!

FantasticFour sold 2000000 tickets and has currently made 2750000.0 dollars.

FantasticFourDos sold 10000 tickets and has currently made 8489500.0 dollars.

FantasticFour sold 10000 tickets and has currently made 2805000.0 dollars.

FantasticFour sold 10000 tickets and has currently made 2815000.0 dollars.

FantasticFour has 2320000 viewers and has made 2815000.0 dollars.

FantasticFourDos has 1110000 viewers and has made 8489500.0 dollars.

FantasticFour was not a big hit.

FantasticFourDos was not a big hit.

FantasticFourDos beats FantasticFour.

Note: Each of the sentences above that appear on two separate lines should really appear on a single line in the output. The text above has simply wrapped around.