



Improve your coding skills by playing with challenging exercises

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Exercise: Movie Tickets

Description

You are in love. The only reason you're still working at the ticket booth for the local cinema is the 'popcorn girl' as you affectionately call her. She's also the boss's daughter which doesn't make things easier. Her type are men that can handle responsibility – and the day comes where you can prove yourself to her!

The computers – if you can call those DOS slaves so – all went down. Worst case scenario. As you are the only clerk who can multiply you are now in charge of handling all ticket sales! **Seize the opportunity!**

Basic admission rates (regular weekday, 2D movie, <=120 min, parquet)

General admission	\$11.00
Students	\$8.00
Senior Citizens (65 & older)	\$6.00
Children (under 13)	\$5.50
Group (20 people or more)	\$6.00 each

Exceptions

3D movie	+\$3.00
Over-length (more than 120 min.)	+\$1.50
Movie Day (Thursday, except for groups!)	-\$2.00
Weekends	+\$1.50
Loge	+\$2.00

Customer satisfaction is important, so always charge the lowest price possible!

Interface To solve this exercise, implement the following interface after you checked out the project template from below.

```

01  /**
02   * (1) New customers arrive at your ticket booth and tell you
03   * what movie they'd like to see (so keep it in mind ;-)
04   *
05   * @param runtime      movie's runtime in minutes
06   * @param day           day of the week (enum)
07   * @param isParquet     true if seating category is 'parquet' (and not 'loge')
08   * @param is3D          true if the movie's shown in 3D
09   */
10  void startPurchase(int runtime, Day day, boolean isParquet, boolean is3D);

```

```
11
12 /**
13  * (2) Add a ticket to the customers' bill
14  *
15  * @param age          the age of the ticket buyer in years
16  * @param isStudent    true if the ticket buyer is a student
17  */
18 void addTicket(int age, boolean isStudent);
19
20 /**
21  * (3) Calculate the total admission for the current customer(s)
22  *
23  * @return total in dollars
24  */
25 float finishPurchase();
26
27 /**
28  * Custom enum to represent the 7 days of the week
29  */
30 enum Day {
31     SUN, MON, TUE, WED, THU, FRI, SAT;
32 }
```

External Links

- [how popcorn and movie ticket costs changed since 1929](#)
- [tips for workplace dating](#)

Checkout

Follow these 3 steps to automatically create the exercise on your PC:

1. Make sure you have *JDK 6* and *Maven 2.2.x* installed.
2. Choose a [programming language](#) and hit the copy button.
3. Paste the code to your console/shell and the project is created.



Copy to Clipboard

Please note: It's impossible to test every unit with every approach in every language - if you spot an error [please write](#).

Solutions

None available yet.

PS: You must be logged in to submit your code!

Tip of the Day

When you solve this kata - solve it again! But do something differently - for example use another approach or even another language! [more tips...](#)

Too Easy ?

- try no debugger
- use [TDD](#) / [BDD](#)
- don't use an IDE

- try another language
- do it with less code
- solve it repeatedly and improve your timing
- try a higher belt

Too Difficult ?

- use an IDE
- try a lower belt
- find & do tutorials

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"Profanity is the one language all programmers know best." - A programmer

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