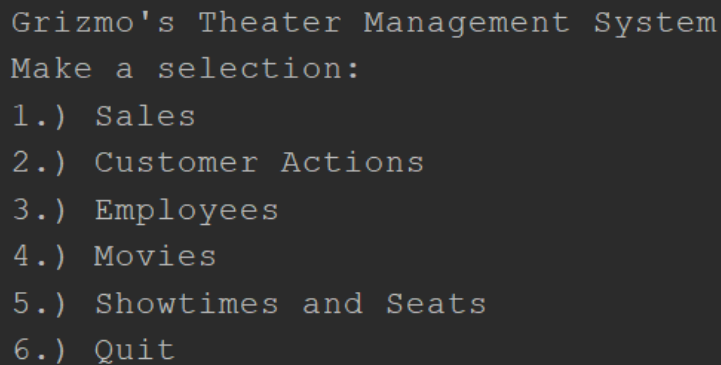For information on compiling and running the program, check the readme.txt file for Stage 3.

This program presents a simplified movie theater management system to be used in a command line interface environment.

Once the program is running, you will be presented with menu options:

```
Grizmo's Theater Management System
Make a selection:
1.) Sales
2.) Customer Actions
3.) Employees
4.) Movies
5.) Showtimes and Seats
6.) Quit
```

Type an integer corresponding to the desired option, then press enter to access its submenu. (Non-integer inputs are required for purchasing tickets, modifying showtimes, and handling employees as will be covered.) The option to Quit, return to the Main Menu or previous Menu should be available so long as a submenu is active.

Note: When prompted to enter or select a day, the full name of the day must be provided (I.E. "monday" "Wednesday" are acceptable but "fri" is not). When prompted to enter a time, hour or showtime, only one of three Strings are acceptable: "1200" "1500" or "1800"

Sales

Allows for the viewing of itemized sales, or a total revenue report.

Customer Actions

Provides a way of purchasing a ticket, concession or drink. When purchasing a ticket, the purchaser's name must be entered. Next, a list of potential movies are listed, along with their genres and playing status (if Playing? False appears to the left of a movie, it is not being shown currently). Then, the desired day is entered, followed by a desired showtime (showtimes may be unavailable), and finally the row and column of the desired seat are entered as integers. The following screenshots show the Customer Actions menu being used:

```
Customer Action Menu
Make a selection:
1.) Buy Ticket
2.) Buy Concession
3.) Return to Main Menu
4.) Quit
1
Enter purchaser name:
Gambino
|| Title: Moral Hazard|| Genre: Drama || Playing? : true
|| Title: Dogforce|| Genre: Family || Playing? : false
|| Title: Death Scar|| Genre: Martial Arts || Playing? : false
Enter an integer indicating which movie you'd like
to see (I.E. to view the second movie listed, enter 2)
1
```

```
Enter the day of week M-F:
wednesday
Enter the showtime (1200, 1500 or 1800):
1200
Which row? (1 thru 9):
4
Which column (1 thru 9):
4
Ticket purchased
```

Successful purchases are added to the sales report and totalized into revenue.

Employees

Allows for the viewing and manipulation of employees. New employees are added by providing their name and age, while existing employees are modified or removed by providing their name.

> **Note: employees are not automatically assigned to shifts. Shift assignments are handled by:

Manage Shift Assignments

> > This sub-submenu allows for adding or removal of existing employees to either the morning, day or swing shift. The employee's name must be entered (but is not case-sensitive). If an employee is fired while they are assigned to a shift, they will automatically be removed from said shift.

Movies

Provides means for manipulating movies. To toggle a movie's "Playing?" status, use the Modify Movie option. In the following screenshot, the 'Dogforce' movie's Playing? Status will be changed from false to true:

```
Movie Menu
Make a selection:
1.) View Movies
2.) Add New Movie
3.) Modify Movie
4.) Remove Movie
5.) Return to Main Menu
6.) Quit
3
|| Title: Moral Hazard|| Genre: Drama || Playing? : true
|| Title: Dogforce|| Genre: Family || Playing? : false
|| Title: Death Scar|| Genre: Martial Arts || Playing? : false
Change a movie's playing status by entering
its row number (entering 2 changes the playing statusof the second movie list
2
```

Showtimes and Seats

This option allows for the viewing of active showtimes, and available seats for specific showtimes. By default, every weekday has an early showing. Afternoon and late showtimes can be added as desired. If a showtime is inactive, "----" is displayed under its day when the 'View Showtimes' option is selected.

The seating chart displays available seats as "-" and taken seats as "X".