Monthly Wage Calculation System

Read and parse wage CSV files. Attached file is an example.

Calculate monthly wage for every person based on the given calculation guidelines.

Example Output

Program output could be something similar to the following example. However, you don't need to output CSV – any format is ok, as long as it makes sense.

```
Monthly Wages 03/2014:
1, John Smith, $2534.00
2, Jane Smith, $763.25
3, James Smith, $8539.72
```

You can also include more detailed information, if you want to.

Data File Format

File format is CSV (Comma Separated Values). Every data row specifies one work shift and split shifts are allowed (=more than one work shift per day for one person). All timestamps are given in 15-minute increments.

```
Person Name, Person ID, Date, Start, End
```

Data Elements

```
Person Name => Textual Name of the Employee
Person ID   => Unique ID of the Employee
Date        => DD.MM.YYYY, Work Shift Date
Start       => HH:MM, Shift Start Time (24h)
End         => HH:MM, Shift End Time (24h)

Example Data Row:
John Smith, 8, 26.3.2014, 13:15, 2:00
```

Wage Calculation Guidelines

Hourly wage for all employees is $3.75. For currency calculations round dollar amounts to the nearest cent. For time to decimal conversions round to two decimal places.

```
Total Daily Pay = Regular Daily Wage + Evening Work Compensation + Overtime Compensations
```

```
Regular Daily Wage = Regular Working Hours * Hourly Wage
```

Evening Work Compensation

Evening work compensation is +$1.15/hour for hours between 18:00 - 06:00.

```
Evening Work Compensation = Evening Hours * Evening Work Compensation
```

Overtime Compensations

Overtime compensation is paid when daily working hours exceeds 8 hours. **Note! When the working shift passes midnight, hours are still calculated into initial day's total.**

```
Overtime Compensations[] = Overtime Hours * Overtime Compensation Percent * Hourly Wage
```

The overtime hours will be paid at the higher rate. Other extra compensations are not included in hourly wage when calculating overtime compensations. Overtime Compensation depends on the amount of daily overtime work hours:

```
First 2 Hours > 8 Hours = Hourly Wage + 25%
Next 2 Hours            = Hourly Wage + 50%
After That              = Hourly Wage + 100%
```

Scoring Criteria

List of areas/topics that will affect your final score:

- Code Quality
    - WTFs / minute
    - Readability
    - Structure
    - Coding style
    - Naming conventions
    - Automated tests
    - DRY
    - KISS
- Non-functional requirements
    - Quality
    - Performance
    - Security
    - Scalability
    - Robustness / Error handling
    - Documentation
- General
    - Assignment completion time
    - Selected programming language
    - Innovative solutions (algorithms, used libraries, wow-effect)
    - Usage of industry best practices (design patterns, functional programming, etc.)
    - Running instructions if using exotic toolsets (also for tests...)