

Lab06 - Mission Impossible 161

Due: Fri May 9, 2014

This lab focuses on:

- Chapter 12 Exceptions
- Chapter 12 Binary files

First step - Copy all the files from my k: drive, including code hints in `Lab06Helper.java`.

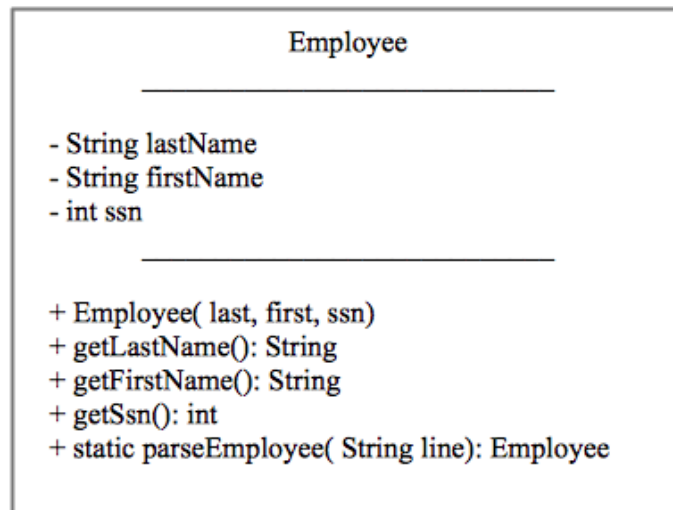
Monday - Employees

I hacked human resources at North Central last week. A copy of their employee list is in the file: **noctrl_employees.csv**. Here are the first three lines of that file:

```
Last,First,SSN
Aaron,Armand,329397693
Abeyta,Madeleine,502864444
...
```

The file format is: 1) comma-separated values (CSV), 2) the first line is a header line, and 3) the remaining lines have values for the 3 employee fields.

Write an `Employee` class. Here's the UML:



In your `main()`, read the employee file I have supplied and create a list of employees. The dangerous part of your mission begins on the next page.

Oops. One last thing with your `Employee` class... let's wedge an exception in here. You can look at pages 758-760 for help on this.

- Create a class `SsnOutOfRange` is-a `Exception`. Add an error message to the ctor.
- Throw `SsnOutOfRange` in `parseEmployee()`.
- Catch it in your `main()`, I guess. When you catch it, just print it and exit.

Each SSN must have 9 digits. So a valid SSN must be in the range of:

```
/** SSN must have 9 digits, this is the min acceptable value. */  
private static final int MIN_SSN = 100000000;  
/** SSN must have 9 digits, this is the max acceptable value. */  
private static final int MAX_SSN = 999999999;
```

Wed - Sort

Your mission, should you choose to accept it, is... there's another **EXTREMELY IMPORTANT** file on the k: drive. It's the legendary NOC List from Mission Impossible. (Thank you, Ethan Hunt!)

```
noc_list.txt
```

The NOC List is a **binary file** of integers. Each integer is the Social Security Number (SSN) of a CIA mole inside North Central College (gasp!).

Pages 764-766 of our text show how to read integers from a binary file. You'll use classes like: `FileInputStream` and `DataInputStream` to read these important numbers.

For each SSN, check to see if it matches the SSN of an employee in our `Noctrl` employees file. If you find a match print out the employee info. You may have uncovered a possible subversive element to, not just our loyal school, but the **WHOLE FREE WORLD!**

When you have saved the world, show it to me for one lab point.

This lab will self-destruct in 5 seconds.
Good luck.

