

6.092: Assignment 2

Foo Corporation needs a program to calculate how much to pay their hourly employees. The US Department of Labor requires that employees get paid time and a half for any hours over 40 that they work in a single week. For example, if an employee works 45 hours, they get 5 hours of overtime, at 1.5 times their base pay. The State of Massachusetts requires that hourly employees be paid at least \$8.00 an hour. Foo Corp requires that an employee not work more than 60 hours in a week.

Summary of Rules

- An employee gets paid $(\text{hours worked}) \times (\text{base pay})$, for each hour up to 40 hours.
- For every hour over 40, they get $\text{overtime} = (\text{base pay}) \times 1.5$.
- The base pay must not be less than the minimum wage (\$8.00 an hour). If it is, print an error.
- If the number of hours is greater than 60, print an error message.

Directions

Create a new class called `FooCorporation`.

Write a method that takes the base pay and hours worked as parameters, and prints the total pay or an error. Write a `main` method that calls this method for each of these employees:

	<u>Base Pay</u>	<u>Hours Worked</u>
Employee 1	\$7.50	35
Employee 2	\$8.20	47
Employee 3	\$10.00	73

Submission Instructions

Submit your `FooCorporation.java` file via Stellar.

Hint

Do *not* try to write the entire program in one go. It is much easier to write a small piece and test it, then write another small piece and test it. For example, start by writing just a skeleton of your method and your main program. Then add the code to do the normal salary computation, without any special rules. Then add each additional rule, one at a time. You should test your program with simple test inputs to check that you handle each case.

Good luck!