



Virtual Workers Unite!

For this assignment, create an abstract base class **Worker**. Every worker has a **name** and an hourly **rate** (along with the appropriate accessor methods). The **Worker** class should have a **pure virtual** **payInfo(int hours)** function that returns the worker's name and computed salary as a formatted **string**.

Note: when defining your base class, please define the members in this order.

1. Working constructor
2. Virtual destructor
3. **getRate()**
4. **getName()**
5. **payInfo()**

Create two derived **concrete** classes **HourlyWorker** and **SalariedWorker**.

- An **hourly worker** gets paid the hourly wage for the actual number of hours worked for the first **40** hours and time and a half for any hours over that.
- The **salaried** (aka "exempt") worker gets paid the hourly wage for **40** hours, no matter what the actual number of hours is.

The test program first creates four **Worker pointers**, and then points each to a different instance of a **derived** class. It then calls the **payInfo()** function for each worker, using different hours (less than and more than 40 hours).

Here's some sample output:

```
Sam (Hourly, $ 20.00) worked 20 hours. Pay: $ 400.00
Tom (Salaried, $ 30.00) worked 20 hours. Pay: $ 1200.00
```

Go ahead and implement that. Then do **make test**. If you haven't made any mistakes, **make submit** and you're done with this assignment.