

**CS 201**  
**Programming Assignment #3**  
**Smeg Head**

Due 10/20/06, in class

**The Program**

Write a good object-oriented Java program to compute the gross pay, tax, and net pay for the two kinds of employees (salaried and hourly) here at Rimmer's restaurant. Salaried employees have an annual salary; hourly employees have a pay rate (dollars per hour) and a number of hours worked. Both kinds of employees can have 0, 1, or 2+ dependents.

Gross pay for salaried employees is computed by dividing their annual salary by the number of checks per year (use the value 12). Gross pay for hourly employees is computed by reading in the number of hours worked and multiplying by the hourly rate.

Taxes are computed using the following table:

dependents	tax rate
0	35%
1	31%
2 or more	27%

**Input** The input to your program is as follows (one line per employee is fine)

code            'S' or salaried, 'H' for hourly  
amount         salary if code = 'S', pay per hour if code = 'H', and 0 if code = 'Q'  
dependents     number of dependences (integer  $\geq 0$ )  
hours worked   the number of hours worked this time period (for hourly employees only)

For example

S 12000 2	salaried employee making \$12,000 per year with two dependents.
S 50000 0	salaried employee making \$50,000 per year with no dependence.
H 100 1 26	hourly employee making \$100 per hour with one dependent who worked 26 hours.

**output** The output of your program should be the gross pay, tax, and net pay for each employee.

**What to hand in**

- (1) A hard copy listing of your program including the javadoc comments (2up on a page, like the listing that I hand out).
- (2) Your test plan (input, projected output, rational).
- (3) Output showing your program in operation on a representative subset of your test plan (at least 4, but no more than 8 inputs).

**Grading**

Header comments 25%  
Test plan 25%  
source code 50%  
— working OO solution 45 - 50  
— working non-OO solution 40 - 45  
— compiles but does not run 30 - 40  
— does not compile 0 - 30