

## Assignment 5 (Due: 6 March, 2007 before noon)

### Qs 1

(5.2) Suppose the following definitions are in effect.

```
boolean p = false;  
boolean q = true;  
boolean r = true;  
int i = 1;  
int j = 0;
```

Evaluate the following expressions:

- a) `p && q || !p && !q`
- b) `p || q && !p || !q`
- c) `q == 1 || 0 < 1`
- d) `0 == 1 || true`
- e) `p && (q || r)`
- f) `!!p`
- g) `false < true`
- h) `j = i;`

### Qs 2 (you don't need to submit this one, just for your practice)

(5.34) Design and implement a program that accepts a date as input. The program should display the date's position in that year. For example, if the date is 12 29 2006, then the displayed number is 363.

### Qs 3 (you don't need to submit this one, just for your practice)

(6.23) Design and implement a program that prompts a user for a filename. The program verifies that each line in that file starts with a valid telephone number. For example, in the United States, a valid telephone number has syntax:

*DDD '-' DDD '-' DDDD*

where the first *D* cannot be a zero. For each invalid telephone number, the program should display the corresponding line to the standard error stream.

Please also see a sample data file: [tele.txt](#)

### Qs 4

Implement a class called `DatafileHandler`, which can

1. open and read a data file
2. count how many data values are in the file
3. report how many with score "0"
4. find the maximum value
5. find the minimum value
6. calculate the average value

Then write a program to use this class, prompt a user for a filename, then output the results of filename, total numbers, numbers of "0"s, maximum value, minimum value, and average on the screen.

Please also see a sample data file: [assignment1score.txt](#)