

## Homework 6 for CSE 216: Software Metrics (10 points)

Due date: Due on **Apr 10th (Friday) 10am in class.**

Use the following procedure for both problems:

```
1: public void printDate (int day, boolean leap_year) {
2:     int month = 1;
3:     int days_per_month = 31;
4:     while (day > days_per_month) {
5:         day = day - days_per_month;
6:         month++;
7:         if (month==3 || month==5 || month==7 || month==8 || month==10 || month==12)
8:             days_per_month = 31;
9:         else if (month==4 || month==6 || month==9 || month==11)
10:            days_per_month = 30;
11:         if (month==2)
12:             if (leap_year)
13:                 days_per_month = 29;
14:             else
15:                 days_per_month = 28;
16:     }
17:     System.out.println(day + '-' + month);
18: }
```

1. Draw the control flow graph for printDate. Use the conventions we covered in class; a composite condition needs to be split into predicates.
2. Cyclomatic complexity
  - (a) Compute the cyclomatic complexity of printDate using the formula:  $CV = e - n + 2$
  - (b) List the predicate nodes
  - (c) Compute the cyclomatic complexity of printDate using the formula:  $CV = \text{\#predicate nodes} + 1$ .