Objectives:

As a programmer, you will be expected to understand good coding practice and logical structures. For this project *you must demonstrate mastery of*:

- Proper code layout
- Interclass method calls
- Random
- Enums
- Collections:
    - Set
    - Map
    - List or Array
- Selection (if and/or switch)
- Looping
- Constants
- Overloaded method
- Static
- Cohesion/Coupling
- Good programming practices!

CIS 225 Mid-Term Exam
Mastering code and creating interesting algorithms

Task

The Nub's Nob ski patrol needs a program that allows patrollers to enter incident information and generate reports. <mark>Please read entire exam before starting your code.</mark>

1. Data entry – patient information
    a. Last name
    b. First name
    c. Auto-generated unique 5-digit ID number
    d. Injury location:
        i. Arms
        ii. Abdomen
        iii. Head
        iv. Legs
    e. Injury severity: 1-10 (10 being most severe)
    f. Type of injury:
        i. Break
        ii. Sprain/strain
        iii. Burn
        iv. Soft tissue slash
        v. Soft tissue blunt
    g. Address
    h. Age

2. Data storage
    a. Store ID numbers, patient info, and injury information objects together in a collection.

3. Process information
    a. Calculate average injury severity for month
        i. Total for all
        ii. Broken down by ages (1-5, 6-10, 11-15, 16-20, 21-50, 50+)
    b. Determine if any customer has more than one incident in a month

4. Report generation
    a. Generate report for each of #2
    b. Generate report that displays patient's name, age, address and all injury info for any injuries that are severity 8 or higher.

OPEN BOOK, OPEN NOTES, OPEN INTERNET!