Highlights -- CS121 Week1 Lab/Exercise Problems

1. During the lab time, and using a lab computer:
   a. Follow the instructions for an IDE of your choice (BlueJ or Eclipse) to create a project for week1 and put provided java code in the project.
   b. Learn to run the java application code, HelloWorld, DeluxeBouncingBall, and IntOps (command line arguments), in the IDE.
   c. Learn to debug in IDE and finish the debugging of Factor.java (cs121 version)

2. Finish the following exercise problems, organized below by key issues. You may work on them in whatever order you choose
   a. Command line arguments: NameAge, NextYear
   b. Debugging: finish the debugging of all 4 buggy five per line programs
      i. Spend time to think about what is wrong with each buggy code.
      ii. You won’t learn much if you just put in copies of one same correct code segment in each buggy class.
   c. Program development
      i. write a correct FivePerLine class that uses one for statement and one if statement, as required.
      ii. Complete ThreeSort, without using any conditional statement.
        1. Note that you may use Math.max(int, int) and Math.min(int, int), which find the max and min value of two arguments respectively.

3. Complete week1Report.txt with your self-assessment of your work.

4. Before the submission deadline, create one zip file, named week1.zip, with all you java source code (your .java files) and report.txt in it, and submit week1.zip in Moodle.

5. (Optional, recommended) Set up a java development environment for cs121 on your own computer. You may refer to instructions written by our TA, search online for information and bring your laptop to TAs for help if needed.
   a. You may try multiple IDEs before selecting one as your main (preferred) java IDE.
   b. You need to mainly use online resources and other users (including students) with expert knowledge for your IDE questions.
   c. No TA or instructor is familiar with every IDE. We will try to help you with your IDE questions; and we would like you to mainly discuss computation related issues with the course staff.