EECS2030 Fall 2019
Guide to Written Lab Test 1
When: Your Registered Lab Session on **Tuesday, October 1**

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1 Format

– This in-lab written test accounts for **10%** of your course grade.

- An on-screen instruction sheet (in HTML or PDF) will be available in the beginning of the test.
- You are required to type answers in a designated plain text file.
- By the end of the test, you are required to submit your answer text file via a terminal (like how you did in Lab0).

– This written test is meant for **assessing your understanding** of the taught concepts.

- Therefore, **during this written test you are not allowed to use any programming tool (e.g., Eclipse) to develop or check your answer**.
- You are expected to demonstrate your understanding by writing **precisely** and **concisely**.
- In the later in-lab programming test (on October 8), you will be expected to use Eclipse to develop Java programs with no syntax or type errors.

– A written-test question can be, for examples:

- Define a concept

  (e.g., aliasing, method overloading, primitive vs. reference types, non-static vs. static variables).
- Write a fragment of code

  Note. In this particular written test, you **may** still receive partial marks if there are minor syntax or type errors.
- Read a small fragment of code, **trace** its output or **explain** whether it is correct or not.

2 Rules

– You must show up for your registered session only.

– There will be a **seating plan**: you must sit at your assigned seat.

– Bring a piece of photo ID (i.e., YU card or driver license).

– No mobile phone usage is allowed during the test.

– No data sheet will be allowed.

– You may bring pen/pencil and a piece of blank paper for sketching your solutions.

3 Coverage for the Written Test

This written test will cover all lecture materials **up to and including** Wednesday, September 25.

- All resources (slides, iPad notes, written notes, tutorial videos, example codes) are available on the lectures page:

  `https://www.eecs.yorku.ca/~jackie/teaching/lectures/index.html#EECS2030_F19`

- Slides
  - Classes and Objects
  - Exceptions
  - Test-Driven Development (TDD) with JUnit
- Example Source Codes
- Reading on the programming pattern: Point and PointCollector
- **Optional**: If you still struggle with the basics of Java (such as if statements, nested loops, logical operators, classes and objects, *etc.*), which this course assumes, refer to parts of the tutorial series:

  `https://www.youtube.com/playlist?list=PL5dxAmCmjv_5NRNPG3OiWZWAqmvCjiLfG`

You need **not** worry about the weekly labs for this test.

4 Study Tips for the Written Test

- Form a study group with your colleagues.
- **Visit Jackie's office hours** to ask questions (send an email to make appointments if needed).
- **Attend the test review session** to ask questions (time and venue to be announced).
- Pay special attention to the **logic** explained on analyzing/tracing Java code.
- In addition to going over slides, it is important that you go through the iPad notes of lectures. **To study an annotated iPad notes page, you may want to revisit the corresponding part of lecture recording if necessary, so as to review the reasoning process that was illustrated in class.**

5 Practice Questions

- Practice questions can be found here:

  `https://www.eecs.yorku.ca/~jackie/teaching/lectures/2019/F/EECS2030/exercises/EECS2030_F19_Written_Labtest_1_Practice_Questions.pdf`

- You may only look at the solutions after attempting the questions:

  `https://www.eecs.yorku.ca/~jackie/teaching/lectures/2019/F/EECS2030/exercises/EECS2030_F19_Written_Labtest_1_Practice_Questions.sol.pdf`

- **These questions are only meant as examples: you should prioritize on studying the lecture materials.**