EECS1022 (M & N) Winter 2021
Guide to Written Test 2
When: Wednesday (Mar 10) & Thursday (Mar 11)

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- This written test is **strictly** individual: identified collaborations will be reported to Lassonde for **a breach of academic honesty**.
- You are given **30 minutes** to complete the submission. The time limit is **strict**.
- This written test accounts for 4% of your course grade.
- Unlike the programming tests, there will be no starter project for you to download and import.
- All questions will be answered on the M & N eClass site.

1 Rules

- Written Test 2 will be ***opened*** at **02:00pm EST** on **Wednesday**, March 10.
- Written Test 2 will be ***closed*** at **02:00pm EST**, on **Thursday**, March 11.
- During the 24-hours submission period, there is a **single attempt of 30 minutes** for you to complete the test. That is, once you click on the test link and choose to start it, a timer of 30 minutes will start.
- Though this is a written test, you may be asked to write fragments of Java code in answer boxes.

2 Format

- Most ($> 60\%$) of the questions will be multiple-choice questions:
  - A true or false question
  - A question with a **single** correct answer
  - A question with **multiple** correct answers

    e.g., Say you are given 5 answers for the question: 2 of them are correct (and 3 of them are incorrect). Accordingly, for each correct answer you choose will receive a credit of $\frac{100\%}{2} = 50\%$, whereas for each incorrect answer you choose will receive a penalty of $\frac{-100\%}{3} = -33.3\%$.

    This mechanism is to ensure that one cannot just receive full marks by simply choosing *all* answers.
- There might be written questions requiring you to, e.g.,:
  - Write a fragment of Java code

    In this case, minor syntax errors such as missing a semicolon will be excused.
  - Explain how a given fragment of Java code works at runtime
  - Explain why a given fragment of Java code works

3 Coverage for the Test

- The concepts about Github and terminal commands are **not** covered in the test.
- Java tutorials from **Week 5** to **Week 7**.
- Lectures materials (slides, iPad notes, example code, recordings) from **Week 5** to **Week 7**:
  - Lecture 3: Loops [all slides]
  - Lecture 4: Classes and Objects [up to **Slide 50**]

  See: `https://www.eecs.yorku.ca/~jackie/teaching/lectures/index.html#EECS1022_W21`
- Written Notes: ***Manipulating Multi-Valued, Reference-Typed Attributes*** [link]
- You need **not** study the lab assignments.

4 Study Tips for the Test

- The test is meant to **test your understanding** of the taught concepts (which is different from a programming test in which you are expected to write Java programs with no syntax or type errors).
- Go through the slides and annotated iPad notes to review the concepts and examples. Re-watch parts of the lecture videos if necessary.
- Skim through the topics discussed in the weekly Q&A sessions: watch ones you consider as helpful.
- Pay special attention to the logic explained on **tracing Java code** (e.g., visualizing object creations and method calls).
- Make sure you understand the development process of Java programs as discussed in class:

  `https://www.eecs.yorku.ca/~jackie/teaching/lectures/2021/W/EECS1022/diagrams/development-process.pdf`
- Given a piece of Java code, you are expected to judge:
  - Whether or not it compiles (if not, then what **syntax errors** or **type errors**?)
  - If it compiles, whether or not it will crash with an **exception**
  - If it compiles, what **console output** it produces, and whether or not there are any **logical errors** (i.e., the output is not as expected)