

EECS1022 (M & N) Winter 2021
Guide to Written Test 3
WHEN: Wednesday (April 7) & Thursday (April 8)

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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 3 will be **opened** at **02:00pm EST** on **Wednesday**, April 7.
- Written Test 3 will be **closed** at **02:00pm EST**, on **Thursday**, April 8.
- 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 answerse.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 of **Week 8**, **Week 10**, and **Week 11**.
 - Lectures materials (slides, iPad notes, example code, recordings) from **Week 8** to **Week 10**:
 - LECTURE 4: CLASSES AND OBJECTS [all slides]
 - LECTURE 5: TWO-DIMENSIONAL ARRAYS [all slides]
- 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.
 - You need **not** study topics related to Android mobile computing (Week 9 tutorial).

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)