

EECS1022 (M & N) Winter 2021  
Guide to Written Test 1  
WHEN: Wednesday (Feb 10) & Thursday (Feb 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 1 will be **opened** at **02:00pm EST** on **Wednesday**, February 10.
- Written Test 1 will be **closed** at **02:00pm EST**, on **Thursday**, February 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 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 from **Week 1** to **Week 4**.
  - Lectures materials (slides, iPad notes, example code, recordings) from **Week 1** to **Week 4**:
    - LECTURE 1: ELEMENTARY PROGRAMMING
    - LECTURE 2: SELECTIONS
    - LECTURE 3: LOOPS (up to and including **Slide 21**)
- See: [https://www.eecs.yorku.ca/~jackie/teaching/lectures/index.html#EECS1022\\_W21](https://www.eecs.yorku.ca/~jackie/teaching/lectures/index.html#EECS1022_W21)
- 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**.
- 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)