EECS2030 Fall 2018
Guide to Lab Test 1

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1 Format

- This lab test (with total marks of 100) accounts for 20% of your course grade.
- Coding in Eclipse [**60 marks**]
  - The level of difficulty will be similar to the **preparation exercise (download the instructions here)**.
  - For this coding part, your marks will be determined by: **1)** if your submitted Java classes and the originally given JUnit test class altogether compile; and **2)** if compilation succeeds, the number of JUnit tests that your code passes.
    - If **1)** is not satisfied, then you receive a **zero** for this coding part of the test.
      Notice that in Eclipse some tests can still be executed even if the overall project does not compile, **but** this is not how we evaluate your code. We require that your code must at least compile (i.e., no red underlines on any of the classes in Eclipse), otherwise we do not even attempt to run tests on your code.
    - If **2)** is satisfied, then your marks will be determined by the number of JUnit tests that your code passes.
  - For this coding part, you will be required to use one-dimensional primitive arrays. Two-dimensional primitive arrays are **not** required for this coding part of the test (but they are required for the written part of the test).
- Concepts (written answers required) [**40 marks**]

2 Rules

- You must show up for your registered session only.
- Bring a piece of photo ID.
- 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 Written Questions

- Slides
  - Classes and Objects
  - Exceptions [up to and including slide 33]
  - Test-Driven Development (TDD) with JUnit
  - The `equals` method
- Sample Codes
- Reading on Point and PointCollector
- Lab 1

  You will be asked to provide written answers (not Java programs) to concept questions (e.g., tracing code, reading code, *etc.*) related to two-dimensional arrays and nested loops.