

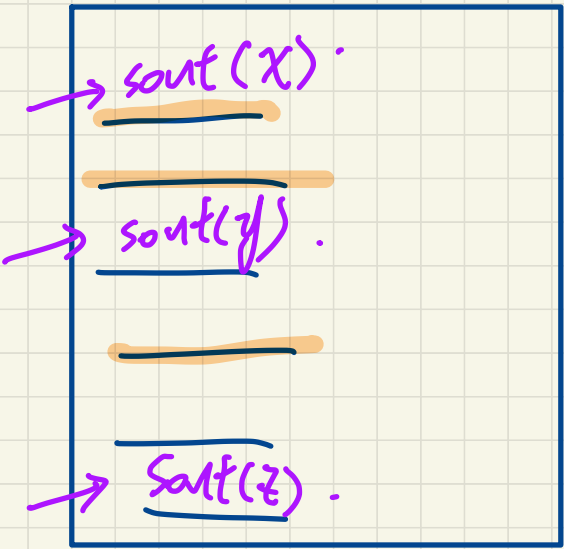
## Lecture 1 - Sep. 5

### Syllabus & Introduction

***Professional Engineers: Code of Ethics***  
***OOP Review Question: Attribute Types***

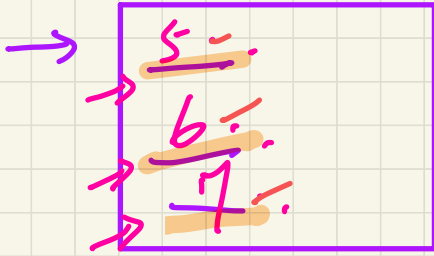
# Conside Tester vs. JUnit Testing

Conside Tester

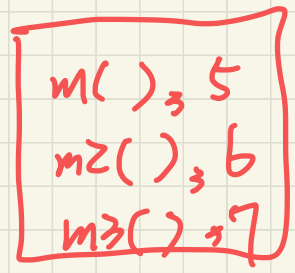
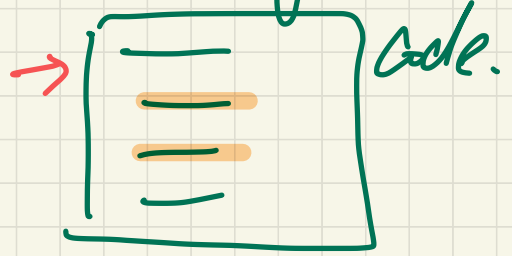


change  
↳ bug fix  
↳ refactoring.

expected



Unit Testing



test.



# Course Learning Outcomes (CLOs)

void m (String s).

CLO1 Implement an Application Programming Interface (API).

CLO2 Test the implementation.

CLO3 Document the implementation.

CLO4 Implement aggregations and compositions.

CLO5 Implement inheritance.

CLO6 Use recursion.

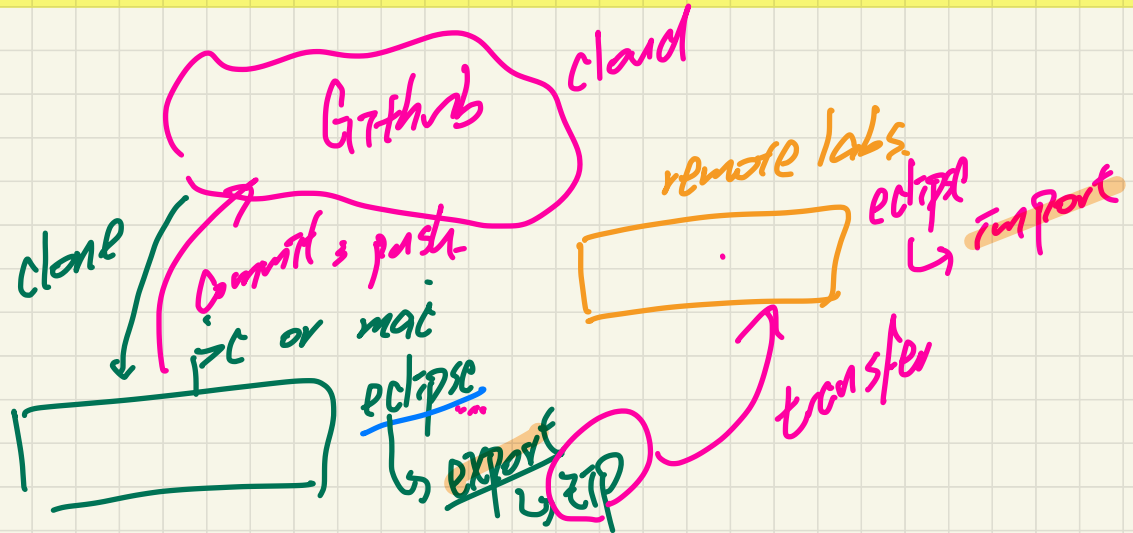
~~CLO7~~ Implement linked lists.

CLO8 (Informally) prove that recursive algorithms are correct and terminate.

CLO9 (Informally) analyse the running time of (recursive) algorithms.

# Synchronization: Laptop, Github, RemoteLabs

- Cloning Github repositories may not work on a remotelab terminal
- Instead:
  - + Develop Java projects on your **laptop**.
  - + **Incremental** commit & push to keep the Github cloud space up to date. ✓
  - + To test if the finished project works on Linux, export & transfer an archive file to remotelab.
  - + On the **remotelab**, import the archive file and re-run all JUnit tests.
  - + If everyone works, submit the archive file!



class B { ... }

class A {

primitive attr -

int

i

Attributes of class A

B

b1

B[]

b2

}

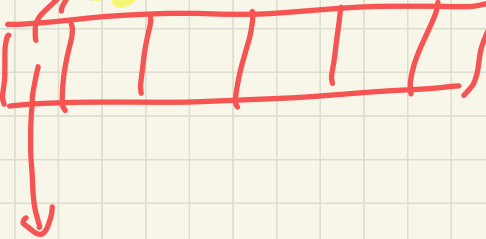
address/ref

Object

b1

address/ref of object B

b2



23  
i

memory

