

Lecture 1 - Sep. 5

Syllabus & Introduction

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

Progtest

[].

- WSC
- Eclipse

- format $\approx$ Lab1 $\sim$ Lab5

grading

1. Compile!

2. starters

3. extra grading tests

↳ 1. Informal Problem descriptions

2. JUnit test cases

(starters)

basic.

develop
Java project

inferred

extra grading tests

Course Learning Outcomes (CLOs)

void m()
(int i)

CLO1 Implement an Application Programming Interface (API).

CLO2 Test the implementation.

Unit test vs. S.O.P.

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.

OOP Review Question

```
class A {  
    int i;  
    B b1;  
    B[] b2;  
}  
  
class B { ... }
```

primitive (circled around 'int')

reference (circled around 'B' and 'B[]')

[23]
└

Obj 23

b1

memory

Obj 23

object instantiated from class B

b2 [Obj 23]

Obj 23

address of some object B

b2

[] [] [] [] []

[]