Wrap-Up



EECS2030 B: Advanced Object Oriented Programming Fall 2019

CHEN-WEI WANG

What You Learned (1)



- Procedural Programming in Java
 - Exceptions
 - Recursion (implementation, running time, correctness)
- Data Structures
 - Arrays
 - Maps and Hash Tables

What You Learned (2)



- · Object-Oriented Programming in Java
 - o classes, attributes, encapsulation, objects, reference data types
 - o methods: constructors, accessors, mutators, helper
 - dot notation, context objects
 - aliasing
 - inheritance:
 - code reuse
 - expectations
 - · static vs. dynamic types
 - rules of substitutions
 - casts and instanceof checks
 - polymorphism and method arguments/return values
 - method overriding and dynamic binding: e.g., equals
 - abstract classes vs. interfaces

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What You Learned (3)



- Integrated Development Environment (IDE) for Java: Eclipse
 - Break Point and Debugger
 - Unit Testing using JUnit

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Beyond this course... (1)

THOMAS H. CORMEN CHARLES E. LEISERSON RONALD L. RIVEST

CLIFFORD STEIN







• Introduction to Algorithms (3rd Ed.) by Cormen, etc.

• DS by DS, Algo. by Algo.:

• *Understand* math analysis

Read pseudo code

Translate into Java code

• Write and pass JUnit tests

• What you have learned will be assumed in EECS2011.

• Logic is your friend: Learn/Review EECS1019/EECS1090.

• Do not abandon Java during the break!!

• Feel free to get in touch and let me know how you're doing :D

• Exam Review Sessions:

1pm to 3pm Monday December 9 12pm to 2pm Tuesday December 10 1pm to 3pm Thursday December 12

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Beyond this course... (2)

levinnes market

Elements of Reusable

Erich Gamma

Richard Helm

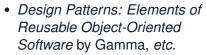
Ralph Johnson

Foreword by Grady Booch

Object-Oriented Software

ALGORITHMS





- Pattern by Pattern:
 - *Understand* the problem
 - Read the solution (not in Java)
 - o Translate into Java code
 - Write and pass JUnit tests

Course Evaluation



Compliments or Complaints on my teaching?

http://courseevaluations.yorku.ca/

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