Lecture #0 | Course announcement

SE271 Object-oriented Programming (2017)

Prof. Min-gyu Cho

Objectives

- Syntax of C and C++
- Concepts of object-oriented programming (OOP)
- Design practices of OOP, incl. design patterns
- Design and implementation of term project using OOP concepts
- Use of development/debugging tools (e.g., Visual Studio, X-code)

Topics which will NOT be covered in this class

- Introduction to programming
- All the syntax of C/C++
  - This course will focus on C++, rather than C
- Advanced topics on design patterns
- Usage of development tools in detail

- You ARE expected & required to learn the following topics on your own
  - How to use tools (IDE, debugger, etc.)
  - Detailed usage of libraries (standard or 3rd-party)

Target audience

- Junior (or sophomore)
- Students who are familiar with basic programming concepts, incl.
  - Variables
  - Control flows (e.g., if, for, while)
  - Functions (how to implement and use)
  - Data types (e.g., int, float, string)
  - Data structures (e.g., array/list)

Information on lecture rooms, instructors and TAs

- Hours: M 1030-1200, W 0900-1030
- Lecture Room: E7 242
- Instructor: Min-gyu Cho, mingyu.cho@dgist
- TAs
  - Jae-Yong Park, darbyyyy@gmail.com
  - Omar Ramirez Sanchez, sanchez@dgist
- Office hours will be announced later

Course materials

- LMS or https://code.dgist.ac.kr/wiki/courses/se271
- Reading list
  - Lecture notes (and supplementary materials)
  - Learn C++ (http://www.learncpp.com/)
  - Other references listed in syllabus
- Development environment & assignment submission: https://www.elice.io/
- Development tools (your choice)
  - Visual Studio (Windows)
  - X-code (Mac OS X)
  - g++ or clang++ (Unix-like OS, e.g., Linux, Mac OS X)

Assessment

Grading*

Area	Weight
Midterm	30%
Final	30%
Assignments	20%
Term project	20%
Attendance or class participation	As needed

Letter grade*

Letter grade	Score
A	>= 85
B	>= 70
C	>= 50
D	< 50
F	If necessary

* Subject to change

Term project

- Team project: 3 students/team
  - Team formation?
- Topics will be given in mid-Octobor, e.g.,
  - (Simplified) N-body simulation
  - (Simplified) Epidemic simulation
  - Or your own choice of topics

ANY QUESTIONS?