



COURSE INTRODUCTION

CSED233 Data Structure

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POSTECH



Why Data Structures?

- Programs solve problems by **processing information**
 - *Information needs to be organized*
 - **Data structures**
 - *Dictionary – for convenient lookup*
 - *Queue – for insertion and deletion in “First-in First-out” way*
 - *Programs carry out tasks*
 - **Algorithms**
 - *A **step-by-step** procedure for performing some task in a **finite** amount of time*



Program = Data structures + Algorithms

- Need to be *correct & efficient*

Textbook

- Michael T. Goodrich et al.
 - *Data Structures and Algorithms in C++ (2nd Edition)*, John Wiley & Sons
 - <http://as.wiley.com/WileyCDA/WileyTitle/productCd-EHEP001657.html>

Prerequisite

- Students are expected to be familiar with C and C++.
- Those who are not familiar with C++ and object-oriented programming must study Chapter 1 and 2 of the textbook to follow this course.

Grading Policy

- Grades will be earned on the following basis:
 - Exams: *Mid-term* (35%), *Final* (35%)
 - No MAKE UP's for missed exams
 - Only a documented **medical excuse** may be considered
 - *Quiz and Homework* (30%)
- Grade scale with percentage
 - A: 30%
 - B: 50%
 - C and below: 20%

POVIS e-Class and POSTECHx

- For class materials, visit e-Class (LMS)

- <http://povis.postech.ac.kr>

- For online lectures, visit Postechx

- <http://postechx.kr>

- TA

- 이승환, shlee95
 - 이은섭, eunseop90
 - 윤정빈, jeongbeen
 - ...

Class guidance 1

■ Flipped learning

- Visit *<http://postechx.kr>* for online lectures
- Watch the online lectures before coming to class and ask questions and discuss in class
- Since lectures are provided online, the onsite class will be held once a week (on Monday)
- Need to regularly check the LMS for announcements and HWs

■ Attendance policy

- Attendance will be checked randomly during the class.
- No answers for three times will lower one level of grade
- No answers for four times will result in failure of the course

Class guidance 2

■ Homework

- Written and programming assignments will be released every week (released at every Thursday and due at the next Wednesday)
- Need to start early otherwise can't finish on time

■ Self-study

- Lectures may only cover the concepts without touching the details
- The assignments and exams requires you to understand the details in the textbook
- Strongly recommend you to read out the textbook yourself
- Self-study is very important for you to succeed in this course and others

HWO

- Study Chapter 1 and 2 of the textbook
- We will have a quiz on Chapter 1 and 2 at the next class (2/25).