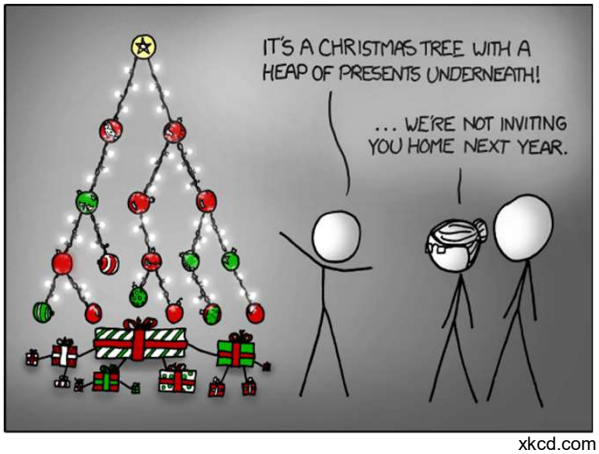
Data Structures

Young-ri Choi

2021 Fall CSE22102

Welcome to CSE221 class!

- Building blocks of computer science



xkcd.com

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Welcome to CSE221

- The goals for today
  - Overview of class information and logistics
  - Plagiarism
  - What is data structure

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Class Organization

Instructor	Class code	Lecture hours & location	Office hours & location	Phone	Email
Young-ri Choi 최영리	CSE221	Tue/Thu 4:00~5:15 PM Online	Send me an email	2136	ychoi

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TA Information

- TA: TBA

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Course Objectives

- Learn abstract data structures
  - Array, queue, stack, linked list, tree, graph, etc.
- Learn basic algorithms
  - Sorting, searching, hashing, etc
- Enhance programming skills
  - Project assignments
- **Prepare you as a computer scientist for a successful college and graduate school life as well as future career!**

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Prerequisites

- CSE241 (AP/OOP programming)
  - Object oriented programming: C++
  - Linux, gcc, vi
  - github
- Department has *abolished hard prerequisite requirements*
  - (plus) you are free to take course without prerequisites
  - (minus) you are responsible for knowing the material of the prerequisite

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Class Structure

- Lectures
- Programming assignments
  - Total 4~6 assignments
  - Will use github: logistics will come in the 1st HW
- Midterm, Final exams

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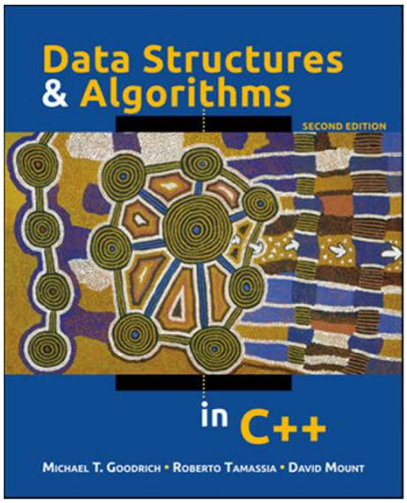
Warning!!!

- Tota
- Will t HW

- Midter

Textbook



- Data Structures & Algorithms in C++
  - Michael T. Goodrich et al.
  - UNIST bookstore will have copies
- Lecture notes may not strictly follow the textbook

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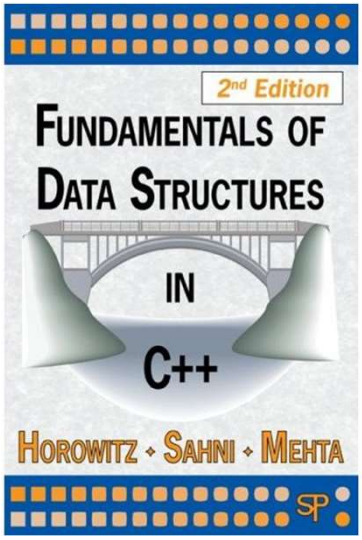
Reference



- Fundamentals of Data Structures
  - Ellis Horowitz et al.

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Grading

- Midterm 20%
- Final 20%
- (Possibly pop) Quizzes 10%
- Assignment 50 %
  - Individual project

** Percentages are subject to change*

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Grading

- Minimum assignment score required per letter grade
  - "In this course, the score obtained in programming assignments will decide eligibility to attain certain levels of grades. Specifically, to receive an A- (or above) grade, students must obtain at least 60% out of the total score aggregated across all assignments. Furthermore, receiving 40-59% out of the total score will limit the student's grade to B+ (or below), 20-39% to C+ (or below), and 0-19% will result in an automatic F. Be aware that these brackets do not mean that the student will be solely graded on projects, but only designates the eligibility."

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Eligible Final Letter Grades

- Considering the total assignment score is 100%
  - **[0-19%]: automatic F ➔ No Exception!!!**
  - [20~39%]: no higher than C+
  - [40~59%]: no higher than B+
  - [60~%]: eligible for any grade

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General Policy

- Official announcements are to be posted in Blackboard. Students are responsible for the failure to acknowledge the announcements.
- Lecture notes and presentation slides will be uploaded in Blackboard.

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Academic Honesty

- As a student of UNIST, you have agreed to abide by the University's academic honesty policy.
- Lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation.
- Questions related to the academic honesty policy should be directed to the instructor.

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Academic Honesty

- Violations will be punished to the maximum penalty based on *UNIST CSE policy on cheating and plagiarism.*
  - When we have on-cite classes, I will talk about plagiarism again.

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Attendance

- By UNIST attendance policy, you will get F grade if you miss 25% or more of classes.
  - If you have a proper reason for absence, send an email explaining the reason to me (with proof) before the class begins.
- If you are not in the class when I call your name, you are absent!

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To Do

- Check your UNIX ac[illegible]om AP/OOP class
  - cs+your ID num
  - Server : uni
- Log in and [illegible]ting a simple hello world progra
- Gitlab guideline will be shared soon!

Considering the current situation, I will announce the detail next week!!!

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Q & A

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