CSE2010 자료구조론

Course Introduction

ICT융합학부 한진영

담당 교수 및 조교 소개

- 담당 교수: ICT융합학부 한진영 교수
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- 담당 조교: HCI학과 석사과정 윤지우
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Lecture Overview

- 수업 구조
  - 이론(SMART-F)
  - 실습
    - 장소: PC1실, IC-PBL실
- 선수과목
  - 프로그래밍기초(CSE1017), 시스템프로그래밍기초(CSE2018)

Lecture Goals

- Learning advanced C language (struct, pointer, memory management)
- Understanding **basic data structures (array, linked list, etc.)**
- Learning representation and usage of data structures such as **stack, queue, tree, and graph**
- Having **coding experience** on data structures and representative algorithms

Grading Policy

- 상대평가
- 점수 배점
  - 출석(10)
  - 실습(20)
  - 퀴즈(10)
  - 중간고사(30)
  - 기말고사(30)

No Cheating

- No submission is better than cheating
  - Zero Tolerance Cheating Policy
- Definition of cheating in this class
  - Knowingly or unknowingly participating in the submission of unoriginal work for any test (e.g., lab exercise, project)
  - Answer to roll-call instead of another student is also regarded as cheating
- Penalty
  - Assign a fail grade

Course Materials

- Lecture notes
  - Will be uploaded to the portal
  - All the information will be given in the portal, so please check the portal frequently

- Reference material (구매 필요 X)
  - "Data Structures Using C", Aaron M. Tenenbaum
  - "C언어로 쉽게 풀어 쓴 자료구조", 천인국, 공용해, 하상호, 생능출판사
  - "Fundamentals of Data Structures in C", E. Horowitz, S. Sahni and S. Anderson-Freed

Tentative Schedule

수업일	내용
3/5	Course Introduction
3/12	What is Data Structure?, Algorithm, Simple Review of C
3/19	Array, Struct, Pointer
3/26	Linked List
4/2	Stack
4/9	Queue
4/16	Tree
4/23	Midterm Exam
4/30	Binary Search Tree (BST)
5/7	Priority Queue, Heap
5/14	Graph (1)
5/21	Graph (2)
5/28	Sorting
6/4	Hashing, Searching
6/11	Data Science Practice
6/18	Final Exam

※ 주별 강의 내용은 상황에 따라 일부 변경되거나 스케줄이 조정될 수 있음

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