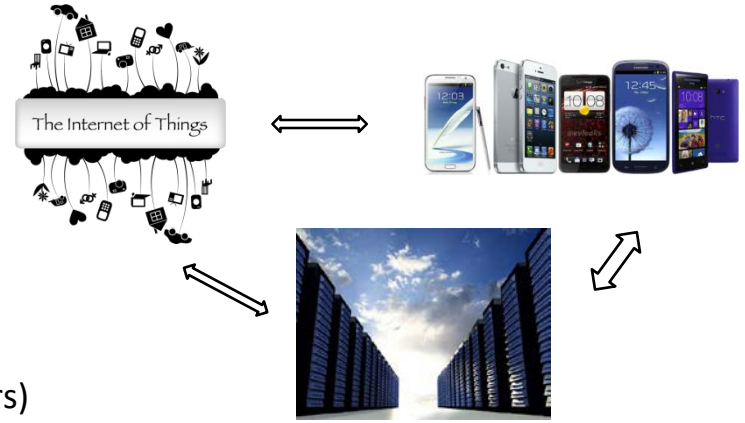
자료구조론
Data Structure

Yongjun Park
Hanyang University

About Me

- **Park, Yongjun ≠ 박영준**
  - I don't blame my father….
- **Assistant professor at Hanyang University**
  - Research Plan
    - Platforms for future internet technologies
    - Internet of Things, Future mobile system
    - Data center, Machine learning
  - HW/SW co-design (Computer Architecture & Compilers)
  - Program optimization and hardware modification for high performance/low power
- **Before this – Hongik University**
- **Before before – Intel Corporation @ Silicon Valley**
  - HW/SW co-design research for future intel processors
  - Android phone with Intel processors!!!!
- **Before ^3 – Grad student at University of Michigan, Ann Arbor**
- **If anyone is interested in research on computers & compilers, or working @ silicon valley, p lease let me know.**



Course overview

- Class
  - Lecture: Mon. 10:00-12:00 (ITBT 509)
  - Lab: Tue. 10:00-12:00 (ITBT 509)
  - Instructor: 박영준 (yongjunpark@hanyang.ac.kr)
  - TA: 김동현 (donghyeon.kim9309@gmail.com),
- Evaluation
  - Midterm 35%
  - Final 35%
  - lab/homework 20%
  - Attendance 10%
- Prerequisite
  - 이산수학
  - C programming
- Textbook
  - Horowitz, Shani & Anderson-Freed, “Fundamentals of Data Structures in C” 2nd ed., Silicon Press, 2008
  - Weiss, “Data Structures and Algorithm Analysis in C” 2nd ed. Addison Wesley, 2009

Course overview

- Grade: A, B, or F (about 15%)
- Attendance check during the class and lab (2/3 of the classes a nd labs are required)
- Only one-day late submission is accepted (50% of your score)
- For complier, gcc compiler is required

Course schedule(Tentative)

Week	Lecture	Lab	Homework
1	Introduction, recursive algorithm, ADT, Big-Oh	git, gcc, vi	
2	linked list	list ADT, insert	delete, find, show
3	stack, queue	stack, queue	postfix evaluation
4	tree rep., binary tree, traversal	threaded tree	
5	binary search tree	BST tree traversal	
6	AVL	AVL	
7	skip list, disjoint set	maze	
8	중간고사		
9	heap	max heap	
10	B-tree (B+ tree)	max heap	
11	graph rep (개교기념일 - 수업)	topological sort sorting	
12	single source shortest path	Dijkstra	
13	sorting	quick sort	heap sort
14	hashing (bloom filter)	hashing	
15	기말고사		

One More Thing…

1. No solicitation about grades.

1. Score check is ok.