

2023 여름방학 부트캠프 컴퓨팅 Syllabus

Date	Day	대주제	시차	강의내용	실습 주제	담당교수
7/17	월	Python 프로그래밍	1	Abstraction, Hello Python, Memory models	Variable reassignment	이준석
			2	Functions, Memory model, Function design		
7/18	화		3	Strings, Control structures		
			4	Modules and Classes		
7/19	수		5	Lists and Loops	List/Loop with matrices	
			6	Sets, Tuples, Dictionaries, and Mutability		
7/20	목		7	File IO	File IO problems	
7/21	금		8	Object-oriented programming	Cartesian plane OOP	
7/22	월	자료구조 및 기초알고리즘	9	Computational Complexity & Searching		
7/23	화		10	Sorting algorithms		
7/24	수		11	Data Structures: Arrays & Linked Lists	Linked list implementations	
7/25	목		12	Data Structures: Stacks & Queues		
7/26	금		13	Data Structures: Trees	Trees, BST problems	
7/31	월		14	Data Structures: Graphs		
8/1	화		15	Data Structures: Hash Tables	Graph, Hash problems	
8/2	수	컴퓨터 시스템 기초	16	Bits, Data Types, and Operations		이재윤
				Semi-conductor and Logic gates		
8/3	목		17	Von Neumann model and machine codes		
				Great ideas		
				Linux		
8/4	금	C 프로그래밍	18	Why high-level languages? Hello C!		
				Variables and Operators in C, Memory in C		
8/7	월		19	Control structures in C	Prime factorization	
				Functions in C	Recursive function example	
8/8	화		20	Pointers	Pointer problems	
				Arrays	Array example, Pointer and array example	
8/9	수		21	IO in C		
				File IO in C	File I/O example	
				Structures	Bounding box structures	
8/10	목		22	Dynamic memory allocation		
				Linked lists in C, To step forward	Merging linked lists	
8/12	토	기말고사				