C Programming
: Intro. to Computing with the C Programming Lang.

Course Overview

Shin Hong

28 August 2023

ITP 10003-01 Director & TAs

- Shin Hong
  - Class director: lead lecture, manage classes, design learning materials
  - 313 Oseok Hall (OH 313)
  - https://hongshin.github.io, https://arise.handong.edu/
  - hongshin@handong.edu

- Teaching assistants

Jeewoong Kim
- Ph.D student
- 318A Oseok Hall
- jeewoong@handong.ac.kr

Sungbin Lim
- Master's student
- 318A Oseok Hall
- sungbin@handong.ac.kr

ITP 10003-01 Enrollees : 23 students

- retakers: 6
- international students: 8
- freshmen: 10
- exchange students: 2

Entrance survey (mandatory)

- submit the following Google Form by 9 PM today as a mean of declaring your attendance for this meeting

  https://forms.gle/zRknmD6nxKTik56H6

  (you can find this link at HDLMS)

Course Objectives

1. cultivate the ability to comprehend simple computation with the C programming language

2. understand how computer systems work in association with the C programming aspect

3. learn basic computation strategies for problem solving

in other words

- Introduction to Programming (50%)
- Introduction to Computer (30%)
- Introduction to Computer Science (20%)

Learning Activities

- Textbook reading
- Lecture & discussion
- Teaching assistant’s session
- Programming exercises
- Exam

Main Textbooks

[HtCS] How to Think Like a Computer Scientist: C Version

- written by Thomas Scheffler
- https://github.com/tscheffl/ThinkC/blob/master/PDF/Think-C.pdf

[DSys] Dive into Systems

- written by S. J. Matthew, T. Newhall, and K. C. Webb
- https://diveintosystems.org

[GNUC] The GNU C Reference Manual

- https://www.gnu.org/software/gnu-c-manual/gnu-c-manual.html

Class Meetings

- Regular meeting (mandatory)
  - 10:00—11:15 AM, Mon & Thur (3 hours/week)
  - 313 Newton Hall
  - Discuss the study topic based on textbook description and examples
- TA session (optional & highly recommended)
  - To be decided (1 hour/week)
  - Q&A, hands-on, programming exercise review
- Meetings are basically held in-person; online meetings (Zoom) for exceptional cases with prior arrangements

Discussion Contribution

- Your question, answers or in a class time is considered as discussion contribution

- Declare your discussion contribution point by leaving a comment on the corresponding cell at the Google spreadsheet
  - https://docs.google.com/spreadsheets/d/1rhF6zo4Ix9vy5DeKGZrNPGZ4IT5cmSMIrfFUDnXTkIw/edit?usp=sharing

Schedule

Week	Class Topic	Textbook coverage
1	Course intro / What is programming	HtCS:Ch.1
2	Variables and types / Function	HtCS:Ch.2 & Ch. 3
3	Conditional statements / Test #1	HtCS: Ch. 4
4	More on function / Iteration	HtCS: Ch. 5 & Ch. 6
5	Iteration (con'd) / Test #2	HtCS: Ch. 6
6	Array, String	HtCS: Ch. 7 & Ch. 8
7	Structure	HtCS: Ch. 9
8	Test #3	
9	Basics of computer systems / pointer	DSYS: Ch. 2
10	Dynamic memory allocation / Test #4	DSYS: Ch. 2
11	Input and output	DSYS: Ch. 2
12	Binary and data representation / Test #5	DSYS: Ch. 4
13	Primitive and Compound Type	GNUC: Ch. 2
14	Statements and function / Test #6	GNUC: Ch. 4 & Ch. 5
15	Program structure	GNUC: Ch. 6
16	Final exam	-

Programming Exercise

- 5 to 8 programming exercises will be given a weekly basis without obligation to submit answers
- The TAs will review these exercises at the TA's session
- It is highly recommended to take Coding Studio together with this class, which offers comprehensive C programming practices

Evaluation

- Components
  - Attendance: 10%
  - Discussion: 10% (+10% in extra for extraordinary contributor)
  - Tests (six times): 40%
  - Final exam: 40%

- Grading: relative evaluation
  - A:B:C = 25-40%: 40-50%: 10-30%
  - Retakers are graded separately

Tests and Exam

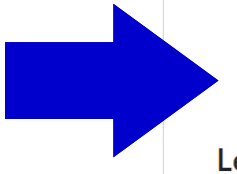
- Tests
  - 5 to 6 times in this semester
  - A test will be made after completion of certain textbook chapters. The schedule will be announced 3 days before the test.
  - A test may have programming problems and descriptive problems.

- Exam
  - 2 hours x 2 times at the final week (16th week)
  - It is planned to give you descriptive problem and a project problem for which you need to construct a solution program in 2 hours.

Communication

- Github Repository: http://github.com/hongshin/c-programming
  - for study materials (lecture note, programming exercise, etc.)
- Instant Messaging: TBD (Google chat, Slack, or Kakaotalk)
  - for announcement, timely communication, and Q&A
- Hisnet LMS
  - for attendance record and bookkeeping

Class Policies



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hongshin Update README.md 73b46ea 1 minute ago 4 commits

README.md	Update README.md	1 minute ago
policy.md	Create policy.md	1 minute ago

README.md

C Programming, ITP10003-01 Fall 2023

Class attributes

- Meeting Time & Location: 10:00 AM, Mon & Thur @313 Newton Hall (NTH 313)
- Instructor: Shin Hong https://hongshin.github.io hongshin@handong.edu OH 313
- Class Policies: policy.md

Learning materials

Main textbooks

- [HtCS] How to Think Like a Computer Scientist: C Version link
- [DSys] Dive into Systems link
- [GNUC] The GNU C Reference Manual link

Lecture notes

About

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