Program Design (1)

Syllabus

Department of Computer Science & Information Engineering
National Cheng Kung University
2020 Fall

Goal

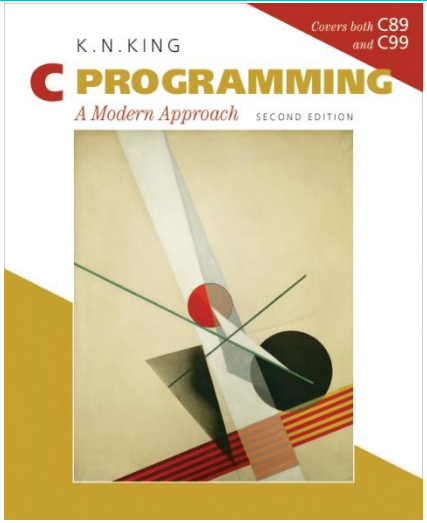
- Learn the basic knowledge of C programming language
- Learn important concepts of modern computer programming
- Learn basic problem solving skills

Class Information

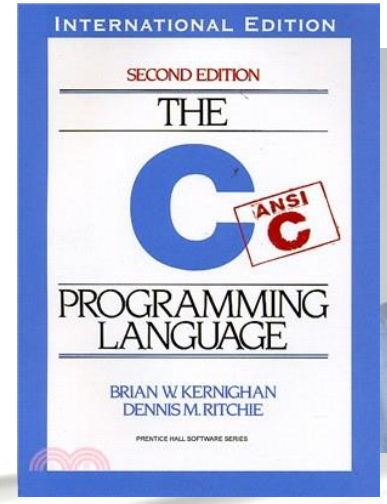
- Time: Thu. 9:10am ~ 12:00pm ([4] 2~4) *for lecture* (by instructor)
  Thu. 1:00pm ~ 5:00pm ([4] 5~8) *for practice class* (by TA)
- Website: http://moodle.ncku.edu.tw/
  (Schedule for practice class will be announced on Moodle)
- Classroom: 電機系 迅慧講堂 92X18@EE Building *for lecture*
  資工系新大樓 65304 65304@New CSIE Building *for practice class*
- Instructor: Meng-Hsun Tsai (tsaimh@csie.ncku.edu.tw)
  ext. 62518 office: Room 65B01, New CSIE Building
- TAs: 段雅培 梁祐承 吳偵平 王聖中 林信宇
  黃政瑋 吳添毅 戴源 徐澤淞 黃睿澤
  E-mail: pd1@imslab.org
  Tel: (06) 2757575 ext. 62520-1004
  Lab: Room 65A04, New CSIE Building

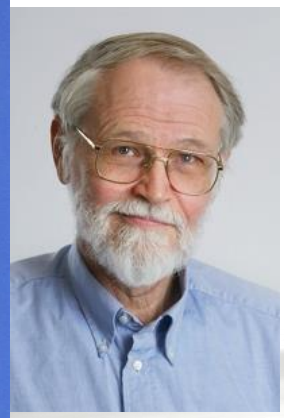
Reference Books

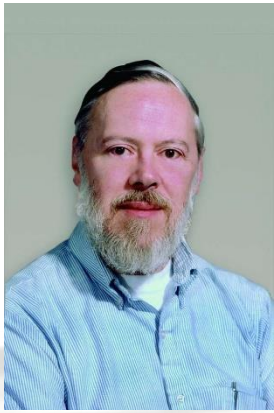
- C Programming, A Modern Approach, 2/e,
  K. N. King,
  W. W. Norton, 2008



- The C Programming Language, 2/e,
  Brian Kernighan and Dennis Ritchie,
  Prentice Hall, 1988







Schedule

1. 9/10 Syllabus / L1. Introducing C
2. 9/17 L2. C Fundamentals
3. 9/24 L3. Formatted Input/Output / L4. Expressions
4. 10/1 (no class) Mid-Autumn Festival
5. 10/8 L5. Selection Statements
6. 10/15 L6. Loops
7. 10/22 L7. Basic Types
8. 10/29 L8. Arrays
9. 11/5 L9. Functions
10. **11/12** Mid-term Exam (On-site Exam at 6pm-9pm)
    (classroom/seat will be announced before the exam)

Schedule (cont.)

11. 11/19 L10. Program Organization
12. 11/26 L11. Pointers / L12 Pointers and Arrays
13. 12/3 L13. Strings
14. 12/10 L14. The Preprocessor
15. 12/17 L15. Writing Large Programs
16. 12/24 L16. Structures, Unions, and Enumerations
17. 12/31 L17. Advanced Uses of Pointers
18. **1/7** Final Exam (On-site Exam at 6pm-9pm)
    (classroom/seat will be announced before the exam)

11/27 Deadline of Withdrawal (friendly reminder)

Final score will be announced before 1/12 and submitted to the registrar no later than 1/15.

Evaluation

- Assignments 20%
- Exams (on-site exam) 80%
  - Midterm 35%
  - Final 45%
- Moodle Bonus (see course webpage on Moodle)
- Contest Bonus (for students who are already good at programming; upper bound: 25%)
  - You are encouraged to attend NCPC (9/27 and 10/9), TOPC (10/7) and ICPC Asia Taipei-Hsinchu Site (not yet announced).
  - Bonus for each solved problem in these three contests: 3%.

Rules to Avoid Unfair Evaluation

- Anyone who cheats in midterm or final exam will be processed according to the college regulations. No doubt, he will fail in this class.
- Anyone who plagiarizes other student's source codes will get zero point, while the original author will get 50% off.
- Anyone who plagiarizes source codes from the Internet or students in previous years is also considered plagiarism. He will get zero point.
- Discussion is encouraged, but plagiarism is seriously prohibited. You must **write your own codes** after discussion.