CS1010E PROGRAMMING METHODOLOGY

Siau-Cheng KHOO

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Semester II, 2017/2018

Course Outline

- Introduce the fundamental constructs of programming
- C is the programming language taught
- Basic programming methodology, not just C
- Preparation for CS1020E and other computing courses

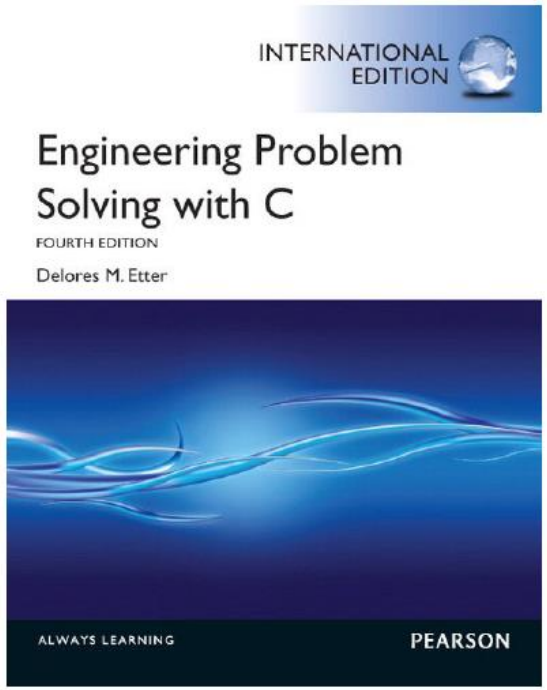
- Learning Outcome:
  - Ability to understand basic algorithms and implement them in C

Teaching Team

- **Lecturers:**
  - Siau-Cheng Khoo & Lifeng Zhou
- **Teaching Assistant (Coordinator):**
  - Cai Zhuohong
- **Tutors:**
  - Auyok Sean, Billy Jackson Gunawan, Cheng Wenhao, Chiang Fong Sin, Dickson Quek Di Shan, Li Yunfan, Lim Miao Ling, Nelson Ng Nuo Song, Ng Jun Wei, Pannajiva Quek Hui Ying, Shen Chenhui, Subhodip Mandal, Tan Wei Hao, Teekayu Klongtruajrok, Tsai Yu Hsuan, Varun Kumar Patro, Wong Khia Yi, Xu Chen, Yap Ni, Yim Chia Hui, Zhu Lingjie, Huynh Thanh Duc Anh, Wang Yu, Shi Lianjie, Feng Piaopiao

Textbook and Website

Engineering Problem Solving with C: International Edition, 4/E



Pearson

Engineering Problem Solving with C: International Edition, 4/E

Author : Etter

Publisher : Pearson

ISBN : 9780273768203

Get it Now at
NUS Campus bookstore

- **IVLE (for everything): http://ivle.nus.edu.sg**

Schedule (tentative)

- Lectures: 2 hr/week, Tuesday 1600 – 1800
  - UTown Auditorium 2
- Practical Lab Exam 1 (Week 6, 24 Feb 2018, Sat, 12 – 5PM)
- Midterm Test (?? 13 Mar 2018, Tue, 7 – 8pm ??)
- Practical Lab Exam 2 (Week 10, 31 Mar 2018, Sat, 12 – 5PM)
- Tutorials: 2 hr/week starting week 2
  - All tutorials are conducted in programming labs
- Labs: No lab
- Final Exam: 30 Apr 2018, Mon, Evening

Assessments*

- **Final Exam :** **45%**
- **Practical Exam (PE) 1 :** **12%**
- **Mid-term test (closed book):** **10%**
- **Practical Exam (PE) 2:** **15%**
- **Own-Time-Own-Target Problem Sets:** **8%**
  - **4 problem sets** **2% per set**
- **Tutorial attendance:** **10%**

*** All assessments are open book, unless otherwise stated.**

Makeup Policy*

- **Missed PE 1**
  - **Your missed exam mark will be determined by the PE 2 mark**
- **Missed Mid-term**
  - **Your missed mid-term mark will be determined by the final exam mark**
- **Missed PE 2**
  - **There will be a special make-up exam during the reading week**
  - **Note that PE2 will be harder than PE1**
- **Missed Problem Set submissions**
  - **There will be no makeup assignments**

*** This policy is applicable if you have an excuse, the validity of which is determined by the lecturers**

More on Tutorials

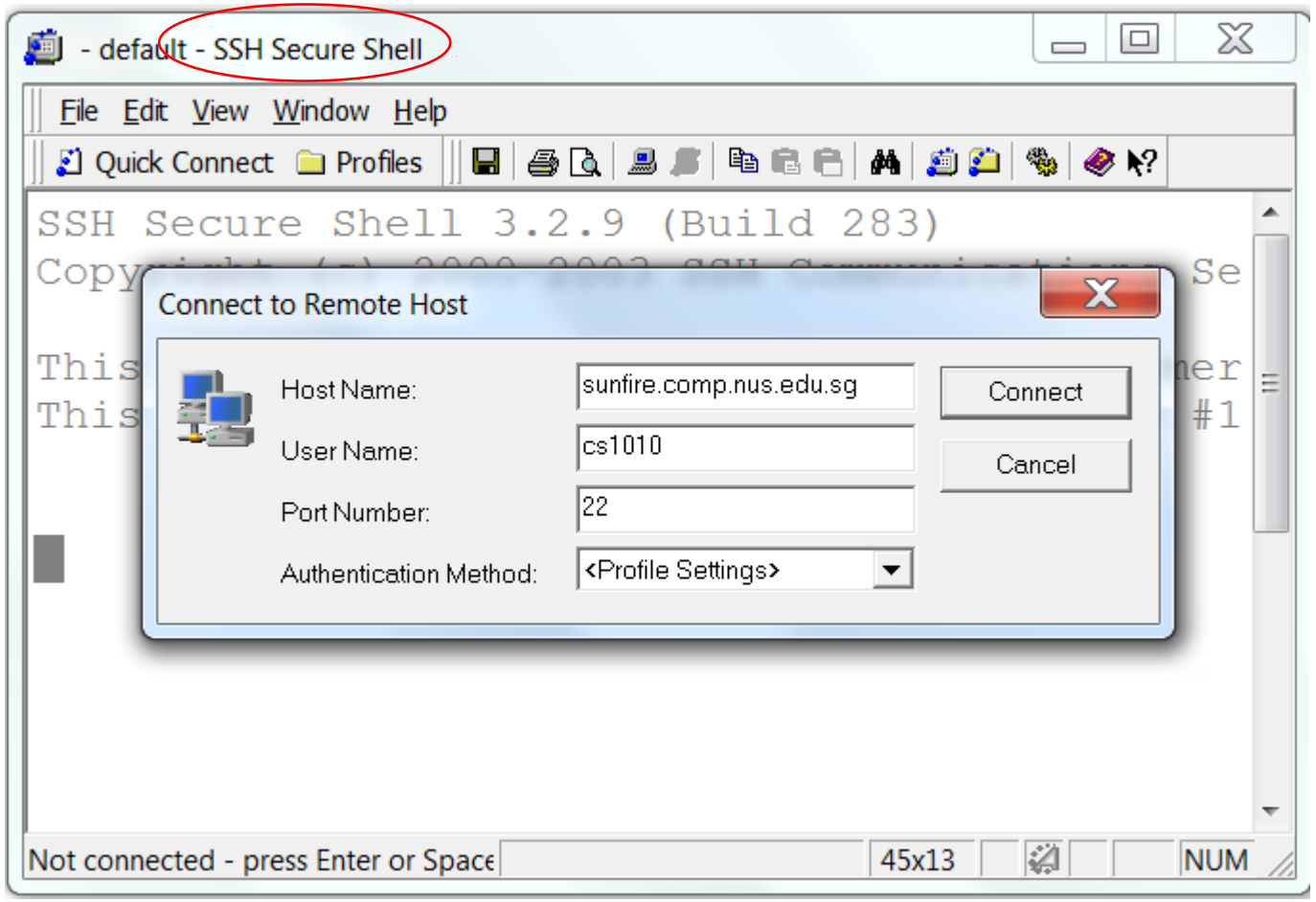
- Tutorials are two hours per week, starting from week 2
  - Attend week 2 tutorial to find out how to use the programming environment to support all your exercises and PEs in this course
- All tutorials will be held in programming labs (COM1, SoC)
- Attendance will be marked, 1% per session, up to 10%

More on Own-Time-Own-Target (OTOT) Problem Sets

- Each problem set contains 20+ programming questions
- One of the questions will be identified as COMPULSORY
- You are required to submit, to CodeCrunch, correct solutions to at least 10 questions for grading, before the submission deadline.
  - One of them must be a solution to the COMPULSORY question.
  - Correct solution means your solution passes all test cases provided by CodeCrunch.
- Most questions are of easy-to-moderate degree of difficulty
- Your tutor will provide comments to your solution to the COMPULSORY question
- You will receive no mark for the problem set if:
  - Your submitted solutions are correct for less than 10 questions, OR
  - You do not submit correct solution to COMPULSORY questions

Programming Environment

- **CS1010E teaches C programming in UNIX**
  - **Details to be covered later**



Program Submission: CodeCrunch

- **Submit homework to CodeCrunch website for grading.**

https://codecrunch.comp.nus.edu.sg