高级数据结构和算法分析
Advanced Data Structures and Algorithm Analysis

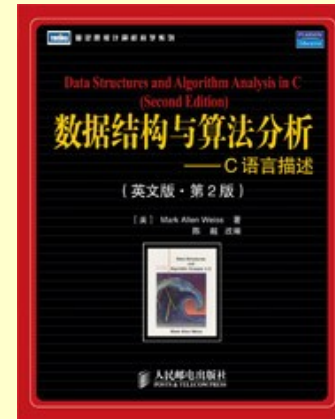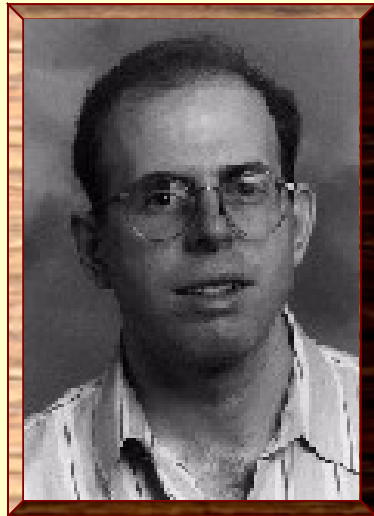## 主讲教师： 卜佳俊

Instructor: BU, Jiajun E-mail: bjj@zju.edu.cn

助教：李亮城 (LI, Liangcheng)

E-mail: liangcheng_li@zju.edu.cn

Courseware and homework sets can be downloaded from https://pintia.cn/

📖　教材　(Text Book)

Data Structures and Algorithm Analysis in C

(2nd Edition)

Mark Allen Weiss

陈　越　改编

Email: weiss@fiu.edu

📖　教材　(Text Book)

Algorithm Design

Jon Kleinberg, Eva Tardos

Addison Wesley, 2005
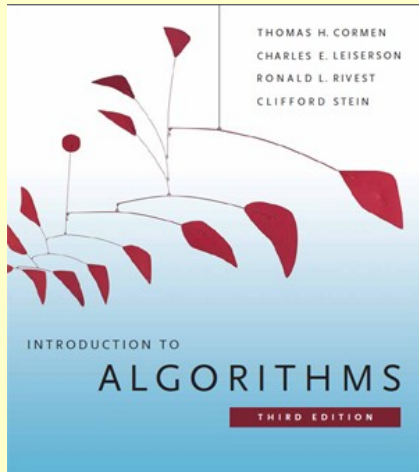
Introduction to Algorithms

(3rd Edition)

Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein
The MIT Press. 2009
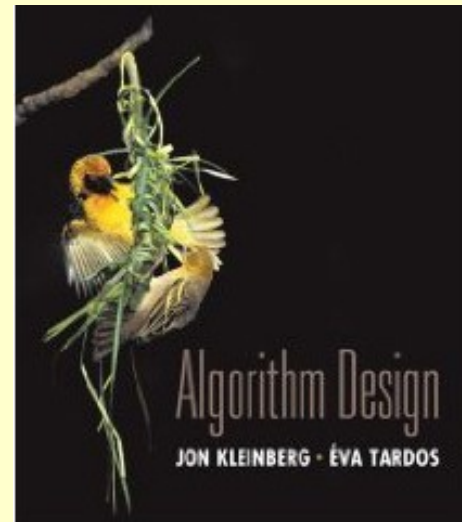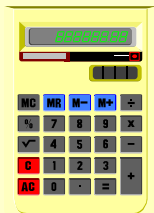
📖 参考书目 **(Reference)**

➤ 数据结构课程设计
  何钦铭、冯雁、陈越 著　　浙江大学出版社

➤ 数据结构与算法分析（C语言版）

  魏宝刚、陈越、王申康 编著　　浙江大学出版社

➤ 数据结构学习与实验指导

  陈越、何钦铭、徐镜春、魏宝刚、杨枢 编著
高等教育出版社

课程评分方法 (Grading icies)

Homework (10)

Discussions (10)

Research Project +Peer Review (30)

MidTerm (10*)

Total ≤ 60

Q&A (0.5 each)

Final Exam (40*)

Homework Assignments (10)

✎ **Register and login at https://pintia.cn/**

✎ **Bind your student ID with bind key**

✎ **Enter**

Bind Student ID

| zju - 浙江大学 | ▼ |

Name

Student ID

Bind Key (obtained from your instructor)   **560911**

Bind

Student ID bound

No Student

Research topics (26)

◆ **Done in groups of 3**

◆ **7 topics to choose from**

◆ **Report (20 points)**

◆ **In-class presentation (10~15 minutes, 6 points)**

◆ **The speaker will be chosen *randomly* from all the contributors**

◆ **If there are many volunteers, at most 3 groups will be chosen to give presentations**

◆ **For those groups not to give presentations, each will gain bonus points = report points / 10**

Research Reports

Peer Review

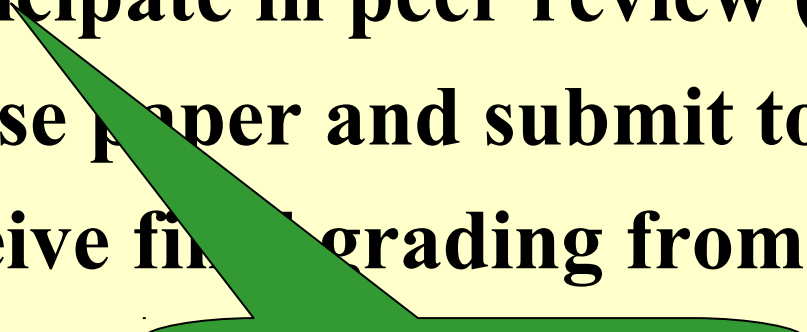$$\text{Group\_Total} = G_T \times 50\% + G_{PR} \times 50\%$$

$$\text{Fullmark} = 20$$

Peer review is for the *reviewer*

- **Editing someone else's work is one of the best ways to learn how to edit your own**
  - It's much easier to see what's working and what isn't in someone else's paper than in your own.
- **Writing is revision**
  - The more you practice reading and critiquing someone else's work, the stronger your editing skills will be when it's time to apply them to your own work.
- **Any skill level works**
  - You can learn a great deal about the fundamentals of good writing from carefully reading and reviewing poor writing, figuring out why it's not succeeding and what it needs to succeed.

Process

1. Submit initial version for peer review (1 week)

2. Participate in peer review (2 days)

3. Revise paper and submit to TA (2 days)

4. Receive final grading from TA

$$PR\ Score = \left(\sum_{i=1}^{ALL\ Groups} PR_i \right) \Big/ (7 \times 10)$$

PR_i Fullmark = 40

Discussions (10)

➢ **Done in groups**

➢ **Random in-class discussion topics**

➢ **Each takes 3~5 minutes**

➢ **Each full-mark is 10**

Q&A

- **For volunteers only**

- **0.5 point for each question asked/answered**

- **come and claim your credits after each class session**

诚信守则
（Code of Academic Honesty）

One must get a **full mark** to be eligible to take the final exam.

As long as there is **one** action of academic dishonesty in this semester, one will **not** be eligible to take the final exam and one's course score will be zero.

WeChat （微信答疑群）

ADS2021

该二维码7天内(3月7日前)有效，重新进入将更新

Please send your group members' names and student ID's to liangcheng_li@zju.edu.cn before 10pm today. In return, you will receive your group ID.

Please specify your group leader in the email.