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

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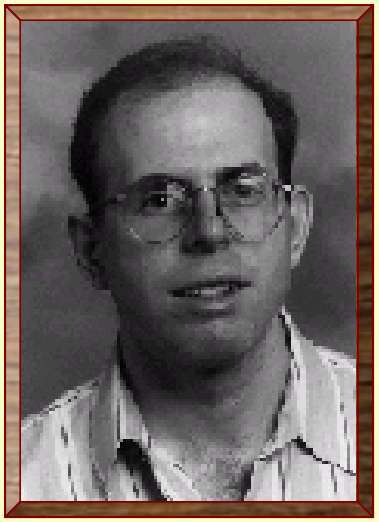
Courseware and homework sets can be downloaded from https://pintia.cn/

📖 教材 (Text Book)



Data Structures and Algorithm Analysis in C

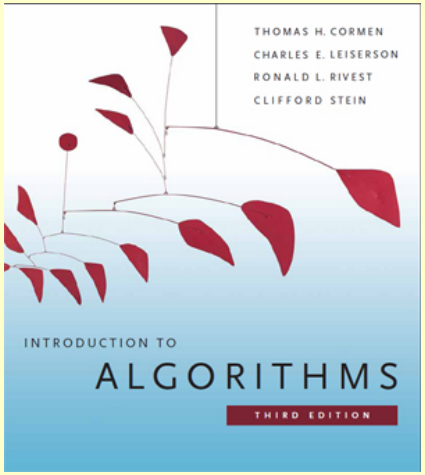
(2nd Edition)

Mark Allen Weiss

陈 越 改编

Email: weiss@fiu.edu

🕮 教材 (Text Book)



Introduction to Algorithms

(3rd Edition)

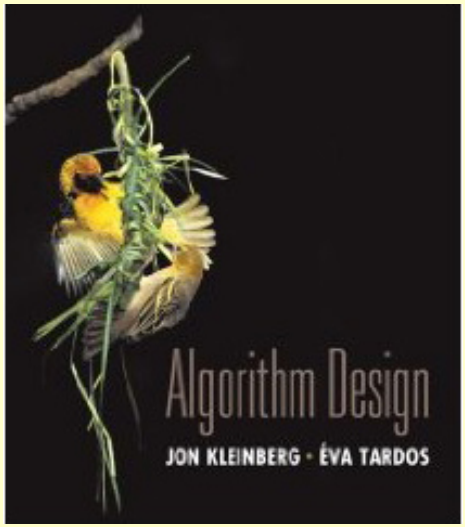
Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein

The MIT Press. 2009

Algorithm Design

Jon Kleinberg, Eva Tardos

Addison Wesley, 2005



📖 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

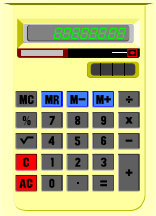
- **数据结构与算法分析（C语言版）**

  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、杨枨 编著

  高等教育出版社



课程评分方法 (Grading Policies)

Homework (10)

Discussions (10)

Research Project +Peer Review (30)

MidTerm (10*)

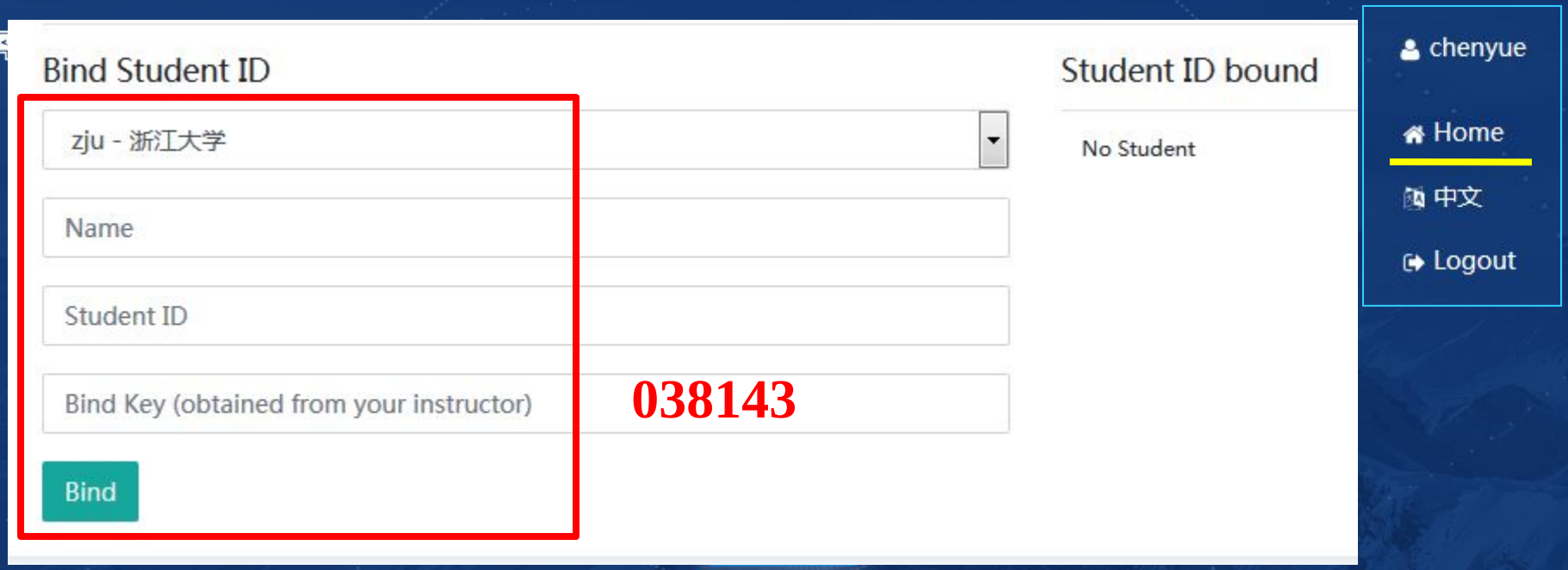
Total ≤ 60

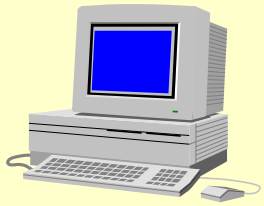
Q&A (0.5 each)

Final Exam (40*)

Homework Assignments (10)

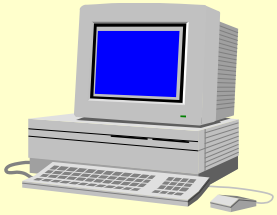
- Register and login at https://pintia.cn/
- Bind your student ID with bind key
- Enter





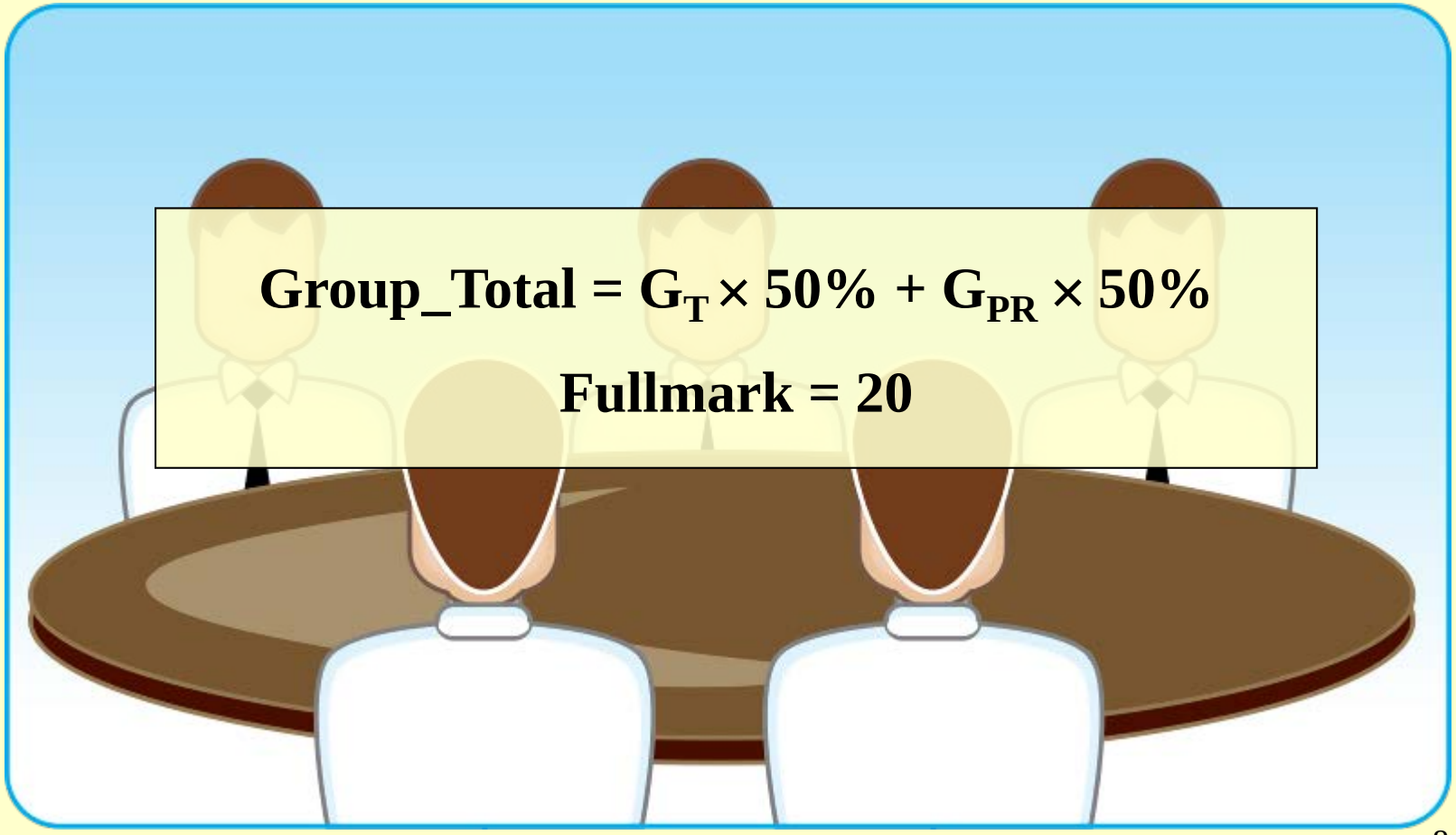
Research topics (26)

- Done in groups of 3
- 8 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



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

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. [illegible]ive final grading from TA

ALL Groups

$$PR\ Score = \left(\sum_{i=1}^{8} PR_i \right) \Big/ (8 \times 10)$$

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**

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