

CSIE1212: Data Structures and Algorithms

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Course Introduction, February 19, 2012

警告: High Expectations

- goal of NTU DSA class:
as good as the best ones in the world
- tentatively, 6–7 homework sets, midterm exam, final project
(<http://www.csie.ntu.edu.tw/~htlin/course/dsa13spring>)
- will have **HW1 this week**
- writing assignments and **time-consuming** programming assignments

be prepared to **work hard!**

警告: Strict Instructor

- Will you give me a second chance if I copy homework from other people? **No**.
- Could you let me pass because I will be kicked out by the 1/2 rule? **No**.
- Will you change my score from *F* to *C*? **No**.

be prepared to **follow the rules!**

警告: Uncertain Outcome

- third-time teaching this course
- ambitious and willing to **experiment**
—**mixed-English teaching**, for instance
- How many people will not pass?
I don't know yet.
- Will your investment (time) get good return (knowledge)?
No guarantees, but I'll try my best.

be prepared to **take some risks!**

給資訊系的同學們：努力加油
給想加選的同學們：審慎考慮

Basic Information

- instructor:
林軒田 Hsuan-Tien Lin (htlin@csie.ntu.edu.tw)
- office hour: after class or by appointment
- course webpage, mailing list:
<http://ceiba.ntu.edu.tw/1012dsa> (CEIBA)
- course contents actually in
www.csie.ntu.edu.tw/~htlin/course/dsa13spring

Update your secondary email address on CEIBA!

Instructor: Strict but Friendly

- Will you repeat the previous code/slide again? **Yes**.
- Will you discuss with me after class if I don't understand? **Yes**.
- Will you pardon my silly questions? There are **no** silly questions.

Feel free to ask me questions and give me feedback!

- 106 seats in room 104, thus the limit
- **type-3**: just go test your luck
- auditing: welcomed (to sit) only if there is an empty chair

please think before you choose to enroll

Teaching Assistants

- TAs (tentatively):
 - 林則如
 - 楊涵傑
 - possibly more
- TA email: to be announced
—2+ TAs and 1 instructor around, usually faster than sending to individual
- office hours: to be announced

very friendly TAs; ask them more questions!

THE Principle

Taking any unfair advantages over other class members is not allowed. It is everyone's responsibility to maximize the level of fairness.

- eating? fine, but no smells and no noise
- sleeping? fine, but no snoring
- cellphone? fine, but silent mode, and speak outside
- ...

applies to instructor, TAs, students

NO CHEATING

NO LYING

NO PLAGIARISM

very very very very serious consequences

- homework (best * 1.5 + worst * 0.5 + others), midterm, final
- supplementary reference: participation in discussions
- raw score goes through some order-preserving normalization steps
 - raw score 80 with term rank A: possible
 - raw score 80 with term rank B: possible
 - raw score 60 with term rank F: possible
 - raw scores 80, 60 with term scores B, B: possible, but unlikely
 - raw scores 80, 60 with term scores F, B: **impossible**
- may or may not normalize with respect to the other class

from the principle: **no individual score change**

Collaboration and Open-Book

- homework discussions: encouraged
- but fairness?
write the final solutions alone and understand them fully
- references (books, notes, Internet):
consulted, but **not copied from**
- no need to lend/borrow solutions

to maximize fairness (everyone's responsibility),
lending/borrowing/buying/selling not allowed

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Deal? If your classmate wants to borrow homework from you,
what do you say?

Homework

- students: justify solutions clearly
- TAs: evaluate solutions fairly
- no individual extension unless not violating the principle (e.g. institute-established cases of illness or emergency)
- late penalty:
90% of the value for 12-hour late, 80% of value for 24-hour late, ...

four penalty-free late half-days (金牌) per person

Data Structures and Algorithms in C++, 2nd Edition by Goodrich, Tamassia and Mount.

- please get it as early as possible
- will try to teach a lot from it

learning to read a textbook is part of the course

Reading Assignments

- weekly
- sections related to what we teach, or sections that are worth reading by yourself
 - we cannot teach all, but with reading you can learn all
- 3-6: 3 hour teaching, 6 hour reading/writing after class

as important as writing assignments:

some may show up in exams

- Mandarin: main language
- English: often encountered
 - teaching ($> 1/3$), coding, website, assignments, . . .
 - important for your future and you are recommended to practice

don't be afraid of English

Important TODOs

- Update your secondary email address on CEIBA
- Read the policy thoroughly

Enjoy the Class! Questions?