Course Orientation

Contact information

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Prerequisites

- Programming language
 - **▶** C
 - **▶** C++
 - ▶ JAVA
- Basic knowledge about data structures

Textbook & References

- Textbook
 - Cormen, Leiserson, Rivest and Stein, Introduction to Algorithms 3rd edition, 2009, MIT press.
 - ▶ Handouts

Topics in this Course

- Growth of functions
- Recurrences
- Sorting & order statistics
- Divide & conquer
- Dynamic programming
- Greedy algorithms
- Amortized analysis
- Advanced data structures

Topics in this Course

- Graph traversal algorithms
- Minimum spanning trees
- Shortest paths
- Linear programming
- Flow networks
- ▶ Fast Fourier transform
- Selected topics

Grading policy

- ▶ Programming assignments: 50%
- Midterm: 20%
- Final: 30%
- ▶ Bonus: TBD
- ▶ IMPORTANT: No adjustment!

Programming assignments

- ▶ 6 topics
 - Divide and conquer
 - Dynamic programming
 - Greedy algorithms
 - Graph traversal
 - Shortest paths
 - Flow networks

Programming assignments

- ▶ 3 problems in each topic
- ▶ 5 points for each problem
- At most 10 points for each topics
- At most 45 points for any five topics
- It means you have to solve at least one problem from every topic to get all 50 points.

Programming assignments

- ▶ Deadline of topic 1: 23:59 Mar 9
- ▶ IP: 140.113.208.57
- ▶ Port: 21
- ▶ Username: Algo2014
- Password: u;6c065/4
- ▶ How to remember password: 楊涵正
- Make your TAs happy: try passwords 李殷超正, 伯軒帥, and 柏瑄好帥.