CS 2336 Discrete Mathematics

Overview General Info, Scope, Assessment

Outline

• Webpage

www.cs.nthu.edu.tw/~wkhon → Discrete Maths

• Lecturer

Wing-Kai Hon (wkhon@cs)

Meeting Times

Lecture: Mon 1010-1200, Wed 0900-0950

Tutorial: To be announced

Outline

• **TA**

Cindy, Hsin-Pei, Henry, Terry

• iLMS

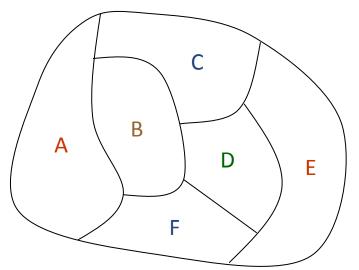
Announcements (exam dates, tutorial info) will be posted through iLMS

What is the course about?

- The study of discrete objects
 - Examples:
 - How to find 2013 consecutive numbers where all of them are not prime numbers?
 - How to arrange a set of numbers from small to large? (This is called sorting)
 - How to prove that a sorting algorithm is correct?
 - How many steps are required in the algorithm?

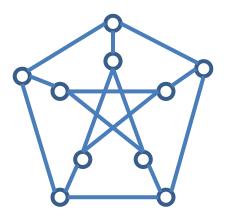
What is the course about?

- More Examples:
 - What is the shortest path between two cities using a transportation system?
 - How to color a map using only 5 colors, so that no adjacent countries have the same color?



What is the course about?

- More Examples:
 - How to show that there is no way to walk around every vertices in the following graph, by visiting each of them only once?



Petersen Graph

Topics to be covered

- Logic
- Methods of Proving
- Counting
- Set, Functions, and Relations
- Graph Theory
- Number Theory (if we have time)

Textbook & References

- Textbook
 - Discrete Mathematics and Its Applications,
 Kenneth H. Rosen
- References
 - Discrete and Combinatorial Mathematics,
 Ralph P. Grimaldi
 - Elements of Discrete Mathematics,
 Chung-Laung Liu

Assessments

5 to 6 Assignments: 0 % 3 Exams: 2 * 40 % + 1 * 20%

Total = 100%

Tentative Exam Weeks (Mon, 2 hours) 8, 14, 18

Study Tips

- Come to every class
- Ask questions
- Do every assignment
- Form study group
- Help the others
- Study ahead
- Most importantly:

Like the Course, Have Fun !!