

# CS110: Programming (Fall 2011)

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# Outline

- Introduction to TAs
- Course introduction
- Course schedule
- Grading items
- Advice for beginners
- Today's task

# Introduction to TAs

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# You are grouped

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王孟晖	罗 璇	何瑞阳	刘一乐	金天行.	余召臣.
瞿 钧	郑辉煌	刘 轩	董博男	解 东	陈 爽.
肖长城	朱旻申	李青林	谢佳明	蒋舜宁	黄文瀚.
谢赛宁	李冠儒	李霄旭	孙 锴	吴 航	刘 爽.
严欣辰	高岩松	李一同	王浩然	陈楠昕.	
戴 勃	张惠楚	沈思亮	潘哲逸	杨 宽.	郭晓旭.

# Course introduction

- We care about:
  - General programming techniques (*C++ is just a tool*)
  - How programs work
  - Why programs fail
  - How to write better programs (*What is "better"?*)
- We don't care about:
  - How to build a video game or a website
  - Learning C++ (or whatever) in 24 hours or 21 days
  - ...

# Course introduction

- <http://acm.sjtu.edu.cn/courses/cs110/fa11>
- <http://groups.google.com/group/acm-programming-students-list>

# Course schedule

Sep. 20	Introduction	Nov. 8	Exam 3
Sep. 27	Computer Simulator	Nov. 15	
Oct. 4	<i>Holiday?</i>	Nov. 22	Exam 4
Oct. 11	Exam 1	Nov. 29	
Oct. 18		Dec. 6	Exam 5
Oct. 25	Exam 2	Dec. 13	
Nov. 1		Dec. 20	Final Project Presentation

Every Tuesday, 18:00-20:30



# Grading items

- Attendance
- Homework
  - Submitted to Online Judge
  - Reviewed by TAs
- Exams
  - 5 in total, top 4 scores selected
  - Talk with last 10 students (every exam)
  - **NO absence, NO cheat**
- Final project

# Final project

- Traditional: *(most students)*
  - Library management system
  - Based on given framework
  - Tested automatically
- Challenge: *(5-8 students)*
  - Select topic by yourself
  - Supervised by at least two TAs
  - Presentation
- Technical report




# Advice for beginners

- Programming is about managing complexity
  - Break a task down into small steps
- Programmers think in an unnatural way
- Code everyday (30 minutes or more)
- DO understand why the program fails,  
NOT just fix it
- Read more books

# Recommended books

- The Practice of Programming
- Exceptional C++
- More Exceptional C++
- Effective C++
- More Effective C++
- The C++ Standard Library
- The Design and Evolution of C++

# Today's task

- Read in three integers, compare them, and print the largest one.
- Example:
  - Input: 21 32 13
  - Output: 32
- You may use ...
  - Dev-C++ 
  - Code::Blocks 
  - Visual Studio 

Introduce yourselves!

*Always Challenge Miracles*

**THANK YOU FOR LISTENING!**