APS105 Winter 2012

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> Lecture I January 16, 2012

Today

- Welcome
- Big Picture
- Administrative Details

What's a Computer?

- Device (hardware) that executes series of instructions (software)
- Never makes mistakes (although they do break)
- Does exactly what you tell it



Why Do We Care About Software?

A Tale of Two Smartphones

Why Take This Class do they make you

- Practical use
- Better hardware design
- Thought process

Everybody in this country should learn how to program a computer, should learn a computer language, because it teaches you how to think. Steve Jobs

Today

- Welcome
- Big Picture
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Image Credit: Banksy

Today

- Welcome back
- Big Picture
- Administrative Details

(Anonymous) Survey

- What concepts did you find easy last term?
- What concepts did you have difficulty with last term?

• Anything else you'd like to mention?

Course Content

- Intro to programming concepts
- Recursion, data structures, searching/sorting

pointers? recursion?

• Can't we start at linked lists?

Course Structure

	Monday	Tuesday	Wednesday	Thursday	Friday
9:00	Lecture BA1220		Lecture BA1210		
10:00					
11:00					Lecture BA1200
12:00					
1:00					
2:00		Lab SF1013			
3:00					Tutorial BA2175

Lectures

• Slides will be posted

Etiquette

- Two requests
 - Respect other people
 - Try to enjoy class

Labs & Tutorials

- No supplementary lecture
- Tutorials are generally one hour (3:00 4:00)
- Same TA for duration of assignments
- Begin next week (Jan 24 and Jan 27)

Marking Scheme

- Good news:
 - No quizzes!
- Bad news:
 - Something replaces them...

CodeLab

- Worth 5% total
- Online weekly exercises
- On your own time, due Sundays by 11:59 pm (starting this week)
- Each week marked out of 2
- \$25 to Turing's Craft
- Please register with your name as it appears on ROSI and your utoronto.ca email address

Midterm

- Worth 25%
- Friday March 2, 2012 from 3:00 pm 5:00 pm
- Note: this is the Tutorial time slot
- If there is a conflict, notify me by Feb 6, 2012

Final Exam

- Worth 50%
- 2.5 hours
- During Final Exam Period
- Cumulative

Lab Assignments

- 5.5 Lab Assignments (done individually)
 - The 0.5 is Assignment 0
- Generally due Saturdays by 11:59 pm
- Late submissions will not be accepted, barring exceptional circumstances
- Assignments must work on ECF
- Submitted via MarkUs
- Will be marked for correctness and style
- Take advantage of the Lab sessions

Lab Assignment 0

- Intended as a warmup to the course
- Make sure you remember how to work on assignments
- Test submitting something

- Very small
- Worth 0%
- I strongly suggest doing it anyway!
- Due this Saturday (Jan 21)

Marking Scheme

Lab Assignment 0	0%
Lab Assignment I	3%
Lab Assignment 2	3%
Lab Assignment 3	4%
Lab Assignment 4	5%
Lab Assignment 5	5%
CodeLab	5%
Midterm Exam	25%
Final Exam	50%

Course Websites

- Blackboard
 - Discussion board (and announcements)
 - Marks
- Instructor site
 - http://www.ecf.toronto.edu/~deberjon/aps105h/
- MarkUs
- CodeLab

Textbooks

- Required:
 - Carter, J. An Introduction to Computer Science Using C 2E McGraw-Hill Ryerson, 2011 (ISBN: 9781259015267)
- Recommended:
 - King, K. N. C Programming: A Modern Approach 2E
 W.W. Norton & Company, 2008 (ISBN: 9780393979503)
- Reference:
 - Kernighan, B. & Ritchie, D. The C Programming Language 2E Prentice Hall, 1988 (ISBN: 0131103628)

Academic Integrity

- Taken very seriously
 - Consequences: failing course, note on transcript, etc.
- University policy is that all parties are equally guilty
- We use software to look for similarities
- For assignments
 - You can talk to other students, but don't take any written (or typed) notes away with you
 - Don't show your code to others

Office Hours

- 2 hours per week
- Survey on Wednesday

Contacting Me

- General questions
 - Discussion board (everyone should keep an eye on it)
 - One thread per question
 - Descriptive thread names
 - Bad: Assignment 2
 - Better: Use of printf in A2 part 3

Contacting Me

- Individual questions
 - jdeber -at- cs -dot- toronto -dot- edu
 - Please include "APS105" in a descriptive subject line