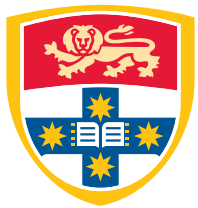
INFO1103: Introduction to Programming

School of Information Technologies, University of Sydney



Lecture 26: Examination

Format and tips

Outline

Essentials for the pass

Format of the exam

Stats and stuff

Essentials for the PASS

Understand variables are assigned and updated

Understand how to perform basic logic

Understand control flow

Understand arrays

For all the above, be able to read, write, correct, annotate code to solve the given problem.

Objects and methods!

Examination format

THE UNIVERSITY OF SYDNEY

SEAT NUMBER: _____
LAST NAME: _____
FIRST NAME: _____
SID: _____

CONFIDENTIAL EXAM PAPER

This paper is not to be removed from the examination room.

INFO1103
Introduction to Programming

End of Semester Examination
Semester 1 – 2016

Total Duration: 2 hours and 10 minutes
Writing Time: 2 hours
Reading Time: 10 minutes

INSTRUCTIONS TO CANDIDATES

1. This is a closed book exam, but you are permitted to bring in and use ONE A4 sheet of paper on which you have written notes.
2. This exam contains **six (6)** questions. All questions must be answered.
3. Answer all questions in the spaces provided on this question paper.
4. Questions are of unequal value. Total mark of exam paper is 100
5. A simple non programmable calculator is permitted
6. This question paper must be returned with the A4 sheet of paper
7. Take care to write legibly. Write your final answers in ink, not pencil. Note that some of the questions require you to write code: ensure that you leave yourself plenty of room, and that you make it as clear as possible.

Please check your examination paper is complete (**24 pages**) and indicate you have done this by signing below.

I have checked the examination paper and affirm it is complete.

Office Use Only	
Question	**Mark**
Q 1	
Q 2	
Q 3	
Q 4	
Q 5	
Q 6	
Total:	

Student Signature: _____ Date: _____

Examination format

Multiple choice

Reading, understanding and calculating the output of code

Writing code solution should be >90% Java code

Solving other kinds of open problems:

- Design a class
- Design tests
- inheritance

The A4 page

What should you write on it

What should you NOT write on it

We will be taking it at the end of the exam. You will not be allowed to keep it.

Preparing for the exam

Review your notes, the lectures, the lab material

Review all the code that you have written!

For all the lab material:

- design and implement all tests for problem
- write all the code solution
- discuss and share your solutions on ed

Write many small code examples

A possible problem solving approach

Draw a picture - they really help you design and then help you focus

Describe the solution at a high level:

- Write pseudo-code if it is easier first
- Write comments for each main step
- Write actual code or function call
- Later, write within each of the function

Example

Write a method that accepts an array of String values and returns an array of those String values that contain the substring "to".
You are given the following helper method from the String class:

```
1 // Returns the index within this string of the first occurrence
2 // of the specified substring. If no such value of k exists,
3 // then -1 is returned.
4 int indexOf(String str);
```

Time management

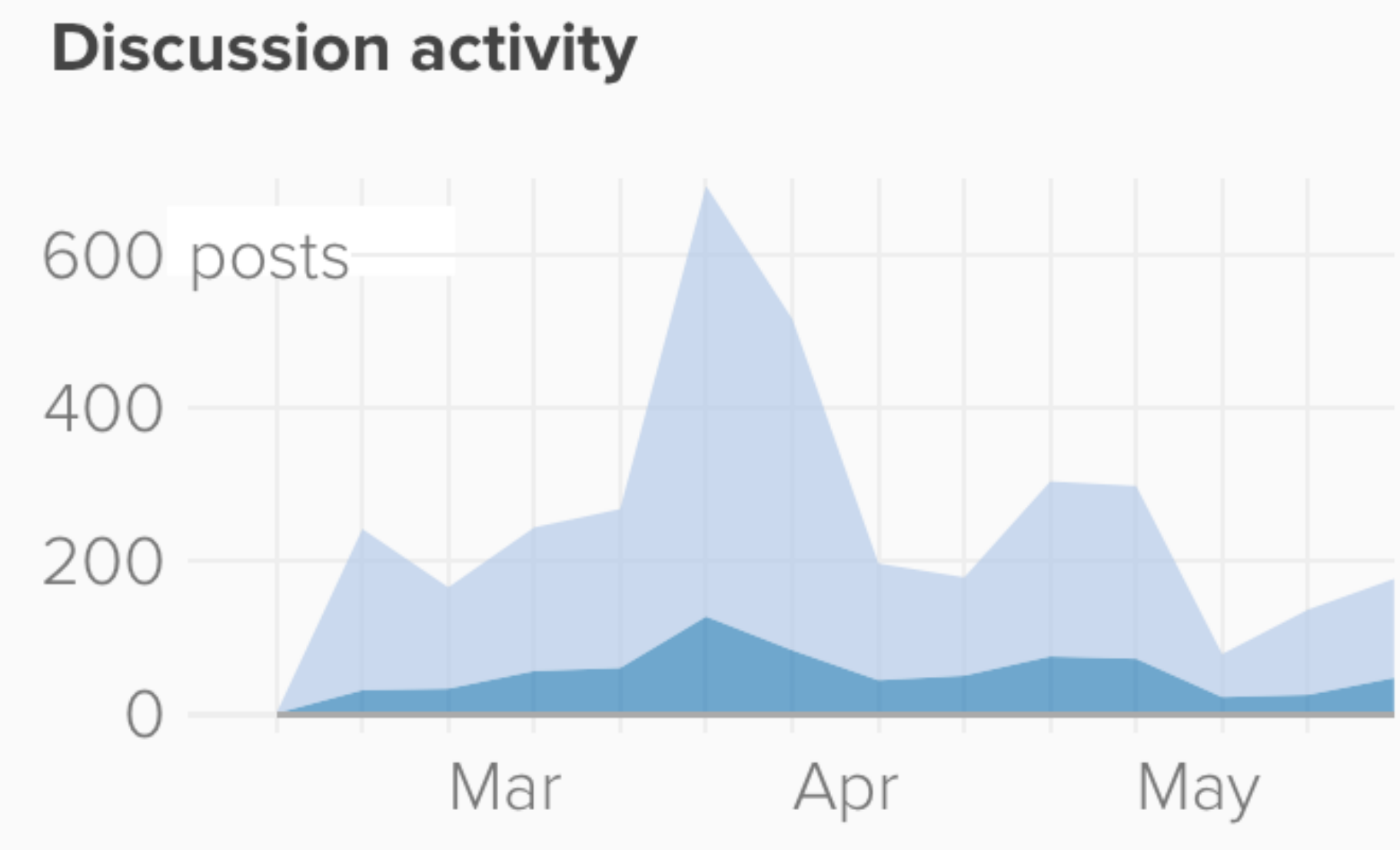
You have no time

Use part of your ten minute reading time to plan your time, not solve the actual questions

Use the weighting of each question as a guide for how long to take

No time to waste, but you must show your answer clearly. Think about your written solution before you have to erase it.

ed Posts



What's next?

1st year

INFO1105 Data Structures

2nd year

COMP2129 Operating Systems and Machine principles

COMP2022 Formal Languages and Logic

INFO2120 Database Systems I

true

COMP2007 Algorithms and Complexity

COMP2121 Distributed Systems and Network Principles

INFO2110 Systems Analysis and Modelling

INFO2315 Introduction to IT Security

3rd Year

COMP3308 Introduction to Artifical Intelligence

COMP3419 Graphics and Multimedia ★

COMP3520 Operating Systems Internals

INFO3220 Object Oriented Design

C++

COMP3109 Programming Languages and Paradigms

INFO3404 Database Systems 2

INFO3315 Human-Computer Interaction

COMP3456 Computational Methods for Life Sciences

algorithms

COMP3530 Discrete Optimization

3rd Year projects COMP3615, ISYS3400, INFO3600

Credits

Lecture preparation

- Michael Charleston
- John Stavrakakis
- Masahiro Takatsuka

ed

- Scott Maxwell
- Dean Codemo

The tutors!

They are central in all aspects of the course, lab sessions, quizzes and assignments. Answering so many questions on ed

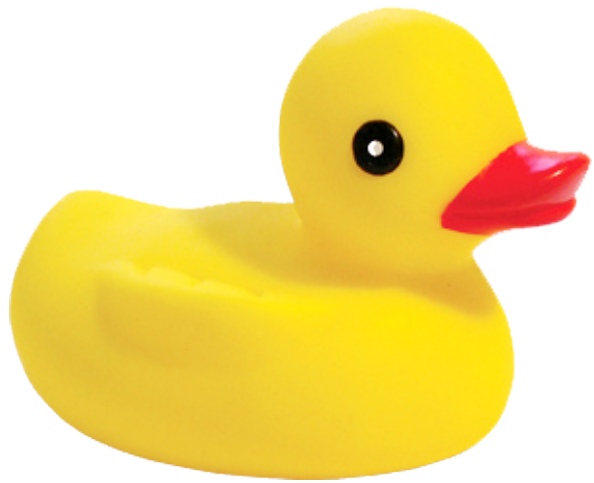
Teaching Assistant

- Zhizhou Yin

Tutors

- Mansour Khelghatdoust
- Waiho Wong
- The Trung Nguyen (James)
- Scott Maxwell
- Dean Codemo
- Xavier Holt
- Eric Liu
- Alan Robertson
- Natalie Tridgell
- Yu Zhao
- Farahnaz Yekeh
- Elie Moreau

Thank you



Good luck