



1B1b Programming II

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1b1a -> 1b1b


- 1b1a directly continues 1b1a.
- There is a 1b1b mailing list
 - Make sure you register on it!
 - Email 1b1b-request, put join on subject line.
 - Only use your UCL CS email address.

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Course Content


- Programming, 20 lectures, by me!
 - Focus on Object-Oriented Programming with classes and objects.
 - Implementing data structures.
- Parsing, 10 lectures, by Licia Capra
 - Introduction to how a compiler works.



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Lectures

- 3 per week
- Tuesday 12 noon, Darwin
- Thursday 2-3pm, Fleming LT
- Friday 11-12am, Archaeology LT
- Reading Week is week 6 (16th-20th Feb).

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Lab classes

- Lab classes and exercises will continue.
- In addition, there are programming tutorials for those who fail Jan exam.

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Coursework

- Programming: 1 test, 1 mini-project.
- Parsing: several courseworks.
- Also programming exercises.

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Reading this term

- Finish reading all chapters in Part I.
- Spend time studying the language reference in Part IV.
- Start reading Part II.
- Seek out interesting books and web sites on Java and programming (and read them!).

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Remember...

- Lectures can't cover everything:
 - Provide some context,
 - Introduce key ideas and concepts,
 - Look at examples,
 - *And, most importantly, tell you what you need to go away and learn about by yourself.*

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Review of progress so far

- Core imperative programming:
 - variables & assignment.
 - sequence, iteration and selection.
 - types and type checking.
 - methods, method arguments and results.
 - scope and lifetime.

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Review of progress so far (2)

- Simple one class programs:
 - class and object.
 - instance variables and methods.
- Object-oriented concepts
 - Basic UML class diagrams.

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Review of progress so far (4)

- Learnt a subset of the Java language.
- Written lots of programs!
- Done a mini-project.

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New programming topics this term

- More Java.
- Writing small OO programs using classes and objects.
- Basic inheritance.
- Implementing data structures.
 - Linked lists, trees, hash tables, etc.

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What you should learn...

- Be able to undertake simple object-oriented programming.
- Have a good knowledge of a large subset of the Java programming language.
- Be able to implement core data structures.

