

122COM: Introduction to Algorithms

David Croft

Coventry University

david.croft@coventry.ac.uk

2016

Overview

1 Module structure

- 1 GUIs
- 2 Using databases
- 3 C++ intro
- 4 Searching
- 5 Data structures
- 6 Profiling and complexity
- 7 Sorting
- 8 Hashing
- 9 Testing

Evaluation

10 credit module. Full coursework evaluation

- MCQ Week 5 (20%)
- MCQ Week 10 (20%)
- ALL project (60%)
 - Portfolio project for Jan Starters

- Write GUI and/or database integration code.
- Write and understand algorithms.
 - Searching algorithms.
 - Sorting algorithms.
 - Algorithmic complexity.
- Write some C++ code.
 - BIT & MC will not be tested on C++ syntax.
- Understand memory.
 - Pointers.
 - Stack and Heap.
- Understand data structures.
 - Stack.
 - Queue.
 - Array.
 - Vector.

The End