122COM: Introduction to Algorithms

David Croft

Coventry University

david.croft@coventry.ac.uk

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Overview

1 Module structure

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Module structure

1. GUIs
2. Using databases
3. C++ intro
4. Searching
5. Data structures
6. Profiling and complexity
7. Sorting
8. Nifty algorithms
9. Classes and linking

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Evaluation

10 credit module.

- MCQ Week 5
- MCQ Week 10
- ALL project

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Aims

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

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Module
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TopHat

Going to be using TopHat during the lectures.

- Registers.
- Mini MCQs.

The End