

## Problem Set 1 - Marking Scheme

### [50] Part A

#### [25] Functionality

- [5] *Specification compliance*: The program works according to the given specifications, e.g. inputs are via the command line.
- [5] *Compilation and running*: The program compiles with no errors (warnings are OK) and runs without crashing.
- [15] *Correctness*: Running `huffman -x file.bin` where `file.bin` is generated by `huffman -c file.txt` results in an identical `file.txt`.

#### [25] Quality

- [5] *Code readability and organization*: Nothing too specific, just rudimentary indenting and breaking up of the program into procedures.
- [5] *Commenting*: Comments are present and verbose enough to be helpful.
- [5] *Description and limitations*: Documentation of the particulars of your program.
- [10] *Algorithm*: Your implementation of the Huffman algorithm and data storage.

### [50] Part B

- [25] *Question 1*: Straightforward.
- [25] *Question 2*: 5 marks per **why**.