COMP20003 2020
Assignment 1 Marking Scheme
Code (8 marks possible / 4 marks if failing testing)   / 8

Functionality (7)

+ Correctly inserts and finds key with single item in dictionary (1)

+ Can find all data for ten unique keys inserted in dictionary (1)

+ Finds all duplicates for duplicate keys (1)

+ Is able to store maximum key/data lengths and maximum buffer size (1)

+ Is able to lookup item with maximum field size key (1)

+ Correctly handles quoted csv values looked up with unquoted key (1)

+ Correctly handles quoted csv values with double quotes (1)

+ Correctly handles final line without terminating newline (0.5)

- Incorrect amount of space allocated (e.g. 128 bytes for each value or missing space for termination/newline/return/etc.) (-1)

- Structures passed by data structure value rather than as a pointer (-1)

- Data not freed in first three tests (-1)

- './prog input output < keys' not followed (-2)

- Output sent to wrong place (-1)

If Fails Automatic Testing (3)

+ Program appears to have correct logic (1)

+ Data item creation looks ok apart from inserting same key (1)

+ Everything looks like it should work apart from small error (0.5)

      which is not mentioned by valgrind (0.5)

+ Data structure incorrectly declared (too much space, unreasonable static size declaration, etc.) (-1)

Makeable (1)

+ Project can be compiled using 'make' commands (1)

- Automatic fixing required (-0.25)

- Significant automated fixing required (-0.5)

- Makefile file is not named correctly to be used by 'make' (-0.25)

Programming Style (2 marks possible)   / 2

Code Safe

- Did not check return value of mallocs (-0.25)

- Did not check return value of file opens (-0.25)

Code Self-Documenting

- Functions poorly named (not representative of action performed) (-0.5)

- Variables poorly named (not representative of meaning of values contained) (-0.25)

Code Well Documented

- Insufficient commenting (-0.5)

Consistency

- Indentation inconsistent (-0.5)

- Bracket placement inconsistent (-0.25)

- Lots of unnecessary blank space (-0.25)

Modularity

- Used Headers and Source files incorrectly (-0.25)

- Code not split up into separate files sensibly (-0.25)

- Print statements inside library functions (-0.25)

- Search/Insert logic included outside dictionary code (-0.25)

- All code in a single file (-1)

                                            TOTAL   /10