

CITS2002 Systems Programming 2021, 2nd Project Marking Sheet

Submission of **ALVIAR, ANFERNEE (22886082)** and **NGUYEN, THANH (22914578)**

Marks awarded from manual code inspection:

- A Makefile, employing variable definitions and automatic variables 3 / 3
 - Descriptive comments, consistent layout, well-chosen identifier names 2 / 2
 - Typedefs, choice of primary data-structure, no constants limiting array sizes 4 / 4
 - Code in multiple C files, function prototypes in header file(s), minimal global variables 4 / 4
 - Calls to system calls and memory allocation checked for errors, reported using perror() 3 / 3
 - Processing of command-line options, preferably with getopt() 2 / 2
 - Recursively scanning requested directories, 4 / 4
 - Reporting matching files, file counts, and sizes 2 / 3
- No legend when printing statistics*
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MARKS FROM BASIC MANUAL CODE INSPECTION: **24 / 25**

- (ADVANCED) detecting duplicates in multiple, possibly overlapping, directories 3 / 3
 - (ADVANCED) creating hard-links for duplicate files 0 / 2
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MARKS FROM ADVANCED MANUAL CODE INSPECTION: **3 / 5**

Any other comments:

Please review the sample solution -

<https://teaching.csse.uwa.edu.au/units/CITS2002/projects/duplicates-soln.zip>

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Marks awarded from compiling submission and running a series of tests:

- Successful - project compiled without warnings or errors 2 / 2
 - Successful - detects invalid option, prints message, exits with failure 2 / 2
 - Successful - detects a non-existent directory, prints message, exits with failure 2 / 2
 - Successful - counting files and sizes (no duplicates) 2 / 2
 - Successful - counting files and sizes (no duplicates), descends into subdirectories 2 / 2
 - Successful - counting files and sizes (with duplicates) 2 / 2
 - Successful - support for -a command-line option 2 / 2
 - Unsuccessful - support for -f command-line option 0 / 3
 - Successful - support for -h command-line option 3 / 3
 - Successful - support for -l command-line option 3 / 3
 - Successful - support for -q command-line option 2 / 2
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MARKS FROM BASIC AUTOMATED TESTING: 22 / 25

- Successful - (ADVANCED) counting duplicate files from multiple directories 1 / 1
 - Successful - (ADVANCED) detecting hard-linked files, contents only counted once 2 / 2
 - Unsuccessful - (ADVANCED) support for -m command-line option 0 / 2
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MARKS FROM ADVANCED AUTOMATED TESTING: 3 / 5

PROJECT TOTAL (capped at 50): 50 / 50