

Assignment 1 Rubric

Part A (30 marks)

Functionality (21 marks)

Function	Rudimentary (1)	Acceptable (2)	Accomplished (3)
Directory Listing	Lists files, does not include sub-directories	Lists all sub-directories, misses some files	Lists all files and all files in sub-directories
File Type Detection	Correctly identifies directories	Correctly identifies most file types	Correctly identifies all file types
Symbolic Link resolution	Symbolic links identified	Resolves absolute paths	Resolves absolute and relative paths
Calculate Checksum	Calculates checksum for some file related information.	Calculates checksum for partial file data.	Calculates checksum for full file
Calculate Size	Size found for regular files, but not summed for directories	Size found for regular files and summed for all directories	Size found for all regular files and summed for all directories (calculates filesize with fseek to avoid estimations from file system)
Tree Drawing	All files listed at the same indentation level	Indentation level increased for each sub-directory	Indentation level increased for each sub-directory and ascii tree makes it easy to trace directory membership
Usage	Demonstrates 1 of: Takes 1 directory as argument, displays proper usage message, handles errors and error messages	Demonstrates 2 of: Takes 1 directory as argument, displays proper usage message, handles errors and error messages	Demonstrates all: Takes 1 directory as argument, displays proper usage message, handles errors and error messages

Code Style / Documentation (9)

Element	Rudimentary (1)	Developing (2)	Accomplished (3)
Commenting	Insufficient citations or Insufficient comment coverage or comments explain code rather than concepts	Well cited, sufficient comments to understand concepts	Very Well Cited and very well written comments
Code Style	Code poorly organized or difficult to read	Code well organized, difficult to read	Code well organized and easy to read
README	Includes limited information about system including instruction to compile and run and assumptions made	Includes most notes about system including instruction to compile and run and assumptions made, but misses at least 1	Clearly includes all notes about system including instruction to compile and run and all assumptions made

Bonus

- Flag to control hidden files (+2)
- Really nice (pstree) style tree (+2)

Part B (20 marks)

	Rudimentary (1)	Developing (2)	Accomplished (3)
Question Answer	Is factually correct, but does not address all parts of the question or fails to support with evidence	Is factually correct, addresses all parts of the question and supports with evidence	Is factually correct, addresses all parts of the question and supports with evidence