L2: File I/O Programming

CS 283 Systems Programming

Grading: 100 Points

Description

In this assignment, you will write a program to the following specifications, using C file system calls.

- Given two directories ./a and ./b, passed as parameters to your program, you need to synchronize them, as follows:
  - If a file in a does not exist in directory b, you should replicate it in directory b.
  - If a file in b does not exist in directory a, it should be deleted from directory b.
  - If a file exists in both directories a and b, the file with the most recent modified date / time should be copied from one directory to the other.
- Print a log of your program's activities to stdout or stderr.

70 Points: Program correctness
30 Points: Program documentation and code style (10), readme (10), makefile (10).