

CS3500

Assignment 1

Deadline: August 23 EOD

Shell Programming

Automated Backup Script

Implement a shell script to perform automated backup with following functional requirements

1. All directories under source directory(which you will pass as arguments) should be backup files having any vowels in the name of the file in a backup directory in your destination directory(again passed as arguments).
`./backup_script -s <source> -d <dest> -o <output>`
 2. Subsequent backups should be done only if there is any change in the file since the last backup. Make sure that this step is efficient (inefficient solutions will be given partial marks)
 3. The shell script should run everyday at 12 midnight. This need not be an argument
 4. Statistics of the process running the shell script including the pid and runtime of the shell script for backup. These statistics should be stored in a file which must also be taken as an argument.
 5. Make sure to add README for your script as well
- Assume that the source and destination directories will not be under either of them(i.e Least common ancestor of the pair is neither of them)

Additional Resources:

- Crontabs - helpful for scheduled processes
- Regex - For pattern matching and searches
- Man - First reference for documentation

Any kind of plagiarism will not be tolerated