Midterm #2 – Dec. 1st

Write a program which:

1. Gets one parameters on the command line: the name of an input file.
2. This file contains a list of directories, one per line.
3. Opens each directory included in the list above and scans all files it contains.
    1. For each file it forks/execs the “wc” command, to compute the number of lines, words and characters.
    2. Parses the output of the spawned command and accumulate the results.
    3. [Optional] Allow for recursive processing (e.g. explore subdirectories)
4. After processing <all> files contained in <all> directories, it prints the total (accumulated) number of lines, words and chars (hint: use the `wc` command to check)

Example

InputFile

```
dir1
/tmp/dir2
./dir3
```

dir1

```
fileA
fileB
```

dir2

```
fileC
```

dir3

```
FileD
FileE
```

fileA

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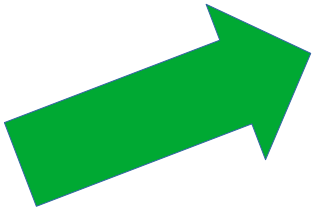
```
$ wc fileA
2 108 722 fileA
```



```
$ ./myProg InputFile
   8  378 2586
```

Setup (optional)

- Download & untar `Midterm2.tgz` from gdrive folder
- Execute `bash ./run.me`
- (develop & submit your program)
- Execute `bash ./clean.up`