MidTerm#1 (Nov.15th)

- Write a program, e.g. named <prog>, which will receive a filename as the only input on its command line.

- This file, if exists, contains one or more lines formatted as follows:

```
<OpCode> <Par#1> [<Par#2>]
```

- Assume that lines are terminated with a '\n' character (newline)
- Use whitespaces or tabs ('\t') as separators.

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- <OpCode> indicates an operation on files. Possible values are:
  - CP (copy)
  - LN (link)
  - UL (unlink)
  - RN (rename)

- <Par#1> (and <Par#2>, if it exists) are intended to be pathnames.

- The program <prog> then performs the requested operations (copy, link, .. etc) and it reports the outcomes on a file (named e.g. <prog>.log).

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- Example (input file)

```
CP fileW ../anotherDir/fileB
CP fileZ fileK
LN fileA fileB
UL fileA
RN fileW /absolutePath/fileB
```

- Optional (for an higher score): allow for some <opCodes> (e.g. CP, UL) to have a variable number of parameters, e.g:

```
CP fileA ./fileB fileC /AbsPathTo/DirectoryD
UL fileJ fileK ./pathTo/fileN
```

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- Possible execution (just an example):

```
$
$ ./prog1 file1
  Reading file1
  Executing: CP .. CP .. LN .. UL .. RN ..
  Done
$
```

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- Possible execution (just an example):

```
$ cat prog1.log
  Copy fileW: OK
  Copy fileZ: OK
  Link fileA: OK
  Unlink fileA: OK
  Rename fileW: File does not exists
$
```

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- Allotted time: 3 hours
  - Send me an email with the source before 12AM
- Tips:
  - Perfection does not exist, don’t spend too much time on details.
  - Use comments to clarify your thoughts.
  - Send me the code even if it does not compile or it is incomplete, it will be evaluated in any case.
  - Beware: with code of this length, plagiarism will be easy to spot.