#### *Group 13*

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#### *Introduction*

Lorem ipsum blah blah blah.

#### *Usage*

SSSH is a replacement shell for Unix-based operating systems.

In your standard shell, compile SSSH in gcc by typing gcc \*.c in the SSSH temp directory.

#### *Implemented* *Commands*

* echo()
  + Usage: *echo [SHORT-OPTION]…[STRING]*
  + Options:
  + –n : Do not output the trailing newline
  + –e : Enable interpretation of backslash escapes
  + –E : Disable interpretation of backslash escapes (default)
  + –help : Display man page and exit
* cd()
  + Usage: *cd [SHORT-OPTION]…[DIRECTORY]*
* SuperBash()
* man()
  + Usage: *man [COMMAND]*
  + Used to display the man page for a given command.
* cpusage()
  + Usage: *cpusage*
  + Used to get the average CPU Load since SSSH has started running (15 minute intervals over a 24-hour maximum period).
* cpuAverage()
  + Usage: Used by cpusage() to calculate average CPU Load.
* strToBinary()
  + Usage: *strToBinary [STRING]*
* charToBinary()
  + Usage: Used by strToBinary() to calculate binary value of each character
* xorBinary()
  + Usage: *xor [STRING 1]…[STRING 2]…[STRING 1 LENGTH]…[STRING 2 LENGTH]*
  + XORs two strings character by character.
  + Returns a binary string with a length based on the shorter of the two strings.
* printBinary()
  + Usage: Used by strToBinary() to output binary value of a string

#### *Implemented Features*

* Piping
  + To pipe output from one command to another, input a pipe between the two.
  + Example: ls | wc
* Background Processes
  + To run a process in the background, input an & as the last character in the command line
  + Example: ls &
* I/O Redirection