# Mish Psudocode (EMIL SÖDERLIND)

* Create PID-Array
* Print prompt
* Import command-row
* Command-row –> Parser –> CommandLine[] + NrOfCommands
* If CommandLine[0] == “Echo”
  + Run internal echo
  + Go back to prompt
* If CommandLine[0] == “cd”
  + Run internal cd
  + Go back to prompt
* else
  + Create pipes (#NrOfCommands-1)
  + Pipe-index = 0 | Keep track of filedesc to close/open etc)
  + For each command in CommandLine[]
    - PID = fork()
    - Check PID (!= -1)
    - Append to PID-Array | PARENT
    - If(PID == 0) | CHILD
      * If(Pipe-index == 0 && NrOfCommands != 0) | First command and NOT only 1 command
        + Close STDOUT
        + DUP STDOUT+Pipe-index+1 -Write-> STDOUT
        + Close STDOUT+Pipe-index+1
      * else if(Pipe-index == 1 && NrOfCommands != 0) | Last command and NOT only 1 command
        + Close STDIN
        + DUP STOUT+Pipe-index -Read-> STDIN
        + Close STDOUT+Pipe-index
      * else if(NrOfCommands != 0)| Middle commands and NOT only 1 command
        + Close STDOUT
        + DUP STDOUT+Pipe-index+1 -Write-> STDOUT
        + Close STDOUT+Pipe-index+1
        + Close STDIN
        + DUP STOUT+Pipe-index -Read-> STDIN
        + Close STDOUT+Pipe-index
      * If there is redirects ( > < ) etc
        + Override STDOUT/STDIN with redirect
      * Execv (command) | Child will end here
    - Pipe-index ++ | Parent will run this
  + Wait for CHILDS | PARENT