B2 – Shell Programming

B-PSU-210

minishell2

one step closer to the 42sh...

{EPITECH.}

minishell2

binary name: mysh
language: C
compilation: via Makefile, including re, clean and fclean rules

- The totality of your source files, except all useless files (binary, temp files, obj files,...), must be included in your delivery.

- All the bonus files (including a potential specific Makefile) should be in a directory named *bonus*.

- Error messages have to be written on the error output, and the program should then exit with the 84 error code (0 if there is no error).

PREREQUISITE

The *minishell1* is needed to be able to validate any minishell2 skills.

GOALS

The goal of the project is to enrich your *minishell1* project by adding semicolons (';'), pipes ('|'), and the four redirections ('>', '<', '»', '«') management.

The priority management is a key part of this project.

> Error output, standard input and standard output redirections will be considered as bonuses.

Authorized Functions

- malloc, free, exit, opendir, readdir, closedir, getcwd, chdir
- fork, stat, lstat, fstat, open, close, getline, strtok, strtok_r
- read, write, execve, access, isatty, wait, waitpid
- wait3, wait4, signal, kill, getpid, strerror, perror, strsignal
- *pipe*, *dup*, *dup2*

Examples

```
▽                              Terminal                          -  +  x
~/B-PSU-210> ./mysh
> ls -l; ls -l | wc -l
total 4
drwxr-xr-x 2 johan johan 4096 Mar 17 16:28 tata
-rw-r-r- 1 johan johan 0 Mar 17 16:28 toto
3
>
```

```
▽                              Terminal                          -  +  x
~/B-PSU-210> ./mysh
> mkdir test ; cd test ; ls -a ; ls | cat | wc -c > tutu ; cat tutu
. ..
5
>
```