C - Pool - Tek1

Subject Day 13

C Pool Managers
looneytunes@epitech.eu

Contents

Instructions

- The subject may change until one hour before turn-in.
- Respect the norm takes time, but is good for you. This way your code will respect the norm since the first written line.
- All the functions which are not explicitely authorized are forbidden
- Turn-in directory:
  `Piscine_C_J13`


Hints `Remember it is always better to create your repository at the beginning of the day and to turn-in your work on a regular basis`


Hints `On the instructions of each exercises, this directory is specified for every turn-in path`


`read of size 1 is forbidden`

1 - cat

- Write a program called `cat` which realizes the same work as the command `cat` of your system.
- You don't have to handle the options.
- The number of files given as parameters is unlimited.
- `cat` without parameters must be supported.
- The turn-in directory must have a `Makefile` with an `all` rule and a `clean` rule. The binary's name will be `cat`.
- You can use the errno variable. (see `man errno`).
- The `perror()` function is forbidden.
- The `malloc` function is also forbidden.
- You can only do this exercise by declaring a fixed size array. This array will have a limited size of about `30 ko`. To test this limitation, use the command `limit` in your shell.

```
1  $> limit stacksize 32
2  $> limit stacksize
3  stacksize 32 kbytes
4  $>
```

Indices `limit is an internal feature of a specific shell. Find the good one :)`

- All the files of your program and the Makefile must be into : `Piscine_C_J13/cat/`
- Your libmy.a MUST be into `Piscine_C_J13/lib/`
- Your my.h MUST be into `Piscine_C_J13/include/`

Hints `man cat`

2 - who

- Write a program called `who` which realizes the same work as the command `who` of your system without any options.
- You only have the right to `include` `<utmp.h>`, `<time.h>`, `<fcntl.h>`, `<errno.h>`, `<unistd.h>` and `<sys/types.h>`
- For more informations, read the `man errno`.
- You can't use `ctime()`, `asctime()`, `stat()`, etc.
- All the files of your program and the Makefile must be into : `Piscine_C_J13/who/`
- Your libmy.a MUST be into `Piscine_C_J13/lib/`
- Your my.h MUST be into `Piscine_C_J13/include/`

 *Hints* `man who`

 *Hints* `man utmp`

 *Hints* `man utmpx`

3 - last

- Write a program called `last` which realizes the same work as the command `last` of your system without any options.
- The turn-in directory must have a `Makefile` with an `all` rule and a `clean` rule. the binary's name will be `last`.
- You only have the right to `include` `<utmp.h>`, `<time.h>`, `<errno.h>`, `<unistd.h>` and `<sys/types.h>`
- You can't use `ctime()`, `asctime()`, `stat()`, etc.
- All the files of your program and the Makefile must be into : `Piscine_C_J13/last/`
- Your libmy.a MUST be into `Piscine_C_J13/lib/`
- Your my.h MUST be into `Piscine_C_J13/include/`

 *Hints* `man last`