Unix System

my_ls

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Table des matières

Administrative details

- The sources must be turned-in on the `PSU_year_my_ls` repository
  ex : `PSU_2013_my_ls` for the 2013-2014 scolar year

- Your binaries shall be compiled by one (and only one !) Makefile.

- Your binaries shall be named `my_ls`

- You can not use any global variable.

Subject

- You must recode the system function `ls [-lRdrt] [FILE]` ... the system on which you will be corrected.

- These options must be passed through in either direction.

```
1    $>ls -l -t
2    ...
3    $>ls -lRt
4    ...
5    $>lls -lt -R -r
6    ...
```

- You don't have to handle the formatting of columns of the `ls` command without the `-l` option.

- It should be possible to display a list of files / folders passed as parameters.

```
1    $>ls -l /dev /usr/sbin
2    ...
3    $>ls -l -r fichier1 fichier2
4    ...
```

Bonus

- Columns management. (man 4 tty).

- Option `-uFgf`.

Indices `man ls`

Example

```
1    $> ./my_ls -l -R
2    total 4
3    -rw------- 1 astek operator 606 Oct 29 10:45 #myls#
4    -rw-r--r-- 1 astek prof 860 Oct 19 11:11 bdsh
5    -rw-r--r-- 2 astek operator 830 Oct 13 14:11 bdsh~
6    -rwxr-xr-x 1 astek operator 497 Oct 13 14:00 stream.a*
7    $> ./my_ls -Rl ~astek/doc
8    total 299
9    drwx------ 2 astek prof 512 Jul 16 1999 Autres
10   -rw-r--r-- 1 astek prof 4892 Oct 27 1999 faq
11   -rwxr-xr-x 1 astek prof 3147 Oct 9 16:22 gdb.html
12   -rw-r--r-- 1 astek prof 253956 Jul 27 1999 livre.pdf
13   -rwxr-xr-x 1 astek prof 10336 Oct 20 10:35 norme
14   -rw-r--r-- 1 astek prof 7490 Sep 17 1999 old_norme
15   -rw-r--r-- 1 astek prof 3184 Sep 30 10:31 planning
16   -rwxr-xr-x 1 astek prof 1470 Mar 24 2000 soutenances
17   $> ./my_ls ./lib
18   iob
19   libextra_FreeBSD.a
20   libmlx_FreeBSD.a
21   libmlx_ia64.a
22   libmy_FreeBSD.a
23   libmy_ia64.a
24   libmy_list_FreeBSD.a
25   lmd
26   my
27   my_btree
28   my_list
29   $>
```

Authorized functions

5

- opendir
- readdir
- closedir
- stat
- lstat
- getpwuid
- getgrgid
- time
- ctime
- readlink
- malloc
- free
- perror
- strerror
- exit