{EPITECH}

BOOTSTRAP

MY_LS

BOOTSTRAP

> **binary name:** info_file
> **language:** C
> **compilation:** via Makefile, including re, clean and fclean rules

You must develop a program that takes a file name as parameter and displays the following information:

- ✓ File name
- ✓ File type
- ✓ Inode
- ✓ Number of hard links
- ✓ File size
- ✓ Allocated space on hard drive
- ✓ Minor (if file is "device")
- ✓ Major (if file is "device")
- ✓ Owner's UID
- ✓ Owner's GID

Authorized Functions
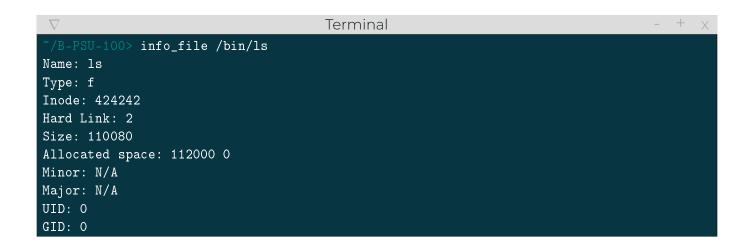
The only system calls allowed are the folowing ones:

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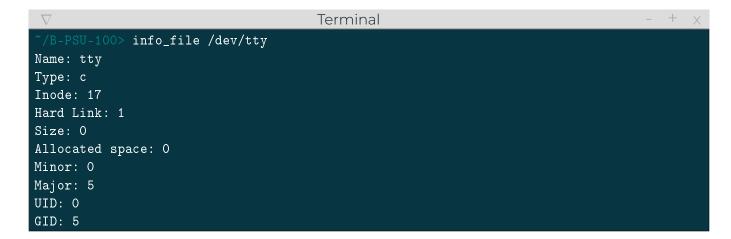- ✓ malloc, free, perror, strerror, exit.

> 💡 Read the manual first

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Examples

```
~/B-PSU-100> info_file /bin/ls
Name: ls
Type: f
Inode: 424242
Hard Link: 2
Size: 110080
Allocated space: 112000 0
Minor: N/A
Major: N/A
UID: 0
GID: 0
```

```
~/B-PSU-100> info_file /dev/tty
Name: tty
Type: c
Inode: 17
Hard Link: 1
Size: 0
Allocated space: 0
Minor: 0
Major: 5
UID: 0
GID: 5
```

```
~/B-PSU-100> ./info_file /dev/toto
File not found
~/B-PSU-100> echo $?
84
```

```
~/B-PSU-100> ./info_file path/to/a_symbolic_link
Name: a_symbolic_link
Type: l
Inode: 22546188
Hard Link: 1
Size: 7
Allocated space: 4096
Minor: N/A
Major: N/A
UID: 1000
GID: 1000
```