



B1 - Unix System Programming

B-PSU-100

Bootstrap

my_ls



2.0



Bootstrap

binary name: info_file
repository name: PSU_my_Is_bootstrap_\$ACADEMICYEAR
repository rights: ramassage-tek
language: C
compilation: via Makefile, including re, clean and fclean rules



- Your repository must contain the totality of your source files, but no useless files (binary, temp files, obj files,...).
- 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).

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



Use only the project authorized functions!



EXAMPLES

```
Terminal
~/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
```

```
Terminal
~/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
```

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

```
Terminal
~/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
```

