Lab 08 exercise 04

Write a shell script that receives as arguments in the command line two arguments `dir` and `out`.
It must check that `dir` is a directory, otherwise it displays an error message and exits.
If `dir` is a directory, it must check all files of the filesystem tree rooted in that directory, and print the following information:

1. If the file is a regular file, prints its pathname, its dimension, and if the user has read and write permissions
2. If the file is a directory, prints its pathname, and how many sub-directories it contains

Notice that the output of command `ls -l` is similar to this one:

```
drwx------ 12 user user 408 Oct 30 19:09 Desktop
-rw-r--r-- 1 user user 192 Jul 13 00:03 pip
-rwxr-xr-x 1 user user 74 Nov 3 10:02 fff.c
drwxrwxrwx 22 user user 408 Oct 30 12:09 tmp
```

The results must be saved in file `out`, sorted in alphabetic order.