

CSC209H Worksheet: File Permissions

1. Consider the following listing of files as produced by `ls -lF`:

```
-rwx----- 1 reid instrs   418 Jan 16 09:23 day.txt*
-rw----- 1 reid instrs 13473 Jan 16 09:23 e1.pdf
drwxr-xr-x 2 reid instrs  4096 Jan 16 09:23 emptydir/
-rw-rw-rw- 1 reid instrs   835 Jan 16 09:23 student_list.txt
-rwxr-xr-x 1 reid instrs  9742 Jan 16 09:23 syscalls*
-rw-r--r-- 1 reid instrs   197 Jan 16 09:23 syscalls.c
drwxr-xr-x 2 reid instrs  4096 Jan 16 09:25 test/
```

- (a) Which regular files can be read by everyone?

```
student_list.txt
syscalls
syscalls.c
```

- (b) Circle the names of directories.

```
emptydir
test
```

- (c) Circle the size of the smallest regular file.

```
syscalls.c
```

- (d) Underline the names of the executable files.

```
day.txt
syscalls
```

- (e) Give the command to remove read permission for others (not in the group) from all the files (including the directories) without changing any other permissions.

```
chmod o-r *
```

- (f) Suppose you have a new file `new_file` and you don't know the permission. What is the command to set the file to be readable and writeable by the owner, readable by the group and not accessible at all to anyone else?

```
chmod 640 new_file
```

- (g) Show the changes directly on the listing that would result from running the command `chmod 751 student_list.txt`

```
-rwxr-x--x 1 reid instrs   835 Jan 16 09:23 student_list.txt
```