

Name: _____ Student ID: _____

In this quiz, you will answer the following problems by writing a bash script. All scripts must be submitted by the end of class via subversion in a directory called 'quiz3' at the top level of your repository.

1. [10 points] Write a script called `finfo` that given a list of files will output the following to standard out:
 - a) The file name.
 - b) The type of file: if the file is a regular file without execute permissions, output "regular file", if it's a directory, output, "directory", and if it's a file with execute permissions, output, "executable".
 - c) The size of the file. If the file is less than 1k, output the word "tiny".
 - d) The first line of the file if it's a regular or executable file (ie, not a directory).

For example, if the file `foo.txt` was 2k in size and not executable, you would output something like:

```
foo.txt: regular file, 2k, It was the best of times, it was the worst of times.
```

Print out a usage message if no arguments are given to your command.

2. [10 points] Write a script called `oldcmds` that takes an argument, which is a time, and finds all processes which have been executing for longer than the given time. The process names, owner, PID, and elapsed time must be listed. Note that the elapsed time is the `etime` argument if you use `-o` with the `ps` command. Your time format can be however you choose, so long as you output the format we need to use when we just type 'oldcmds' without any arguments. *Hint: You probably want your time format to mimic the time format given by ps.*