Ruby Practice Exercise #3

Note that these practice exercises are NOT optional. They are not add-ons to this module – they are part of the core content of your course. Do not skip these practice exercises!

Exercise 3.1 (review Learn Ruby 4 and 5)

The /etc/passwd file on Linux stores information about each of the system's users. This file is colon-delimited (i.e., each:entry:is:separated:from:the:next:by:a:colon). Write a Ruby program that processes this file on your computer and provides a count of the number of system users who do not have a login-shell enabled (hint: their shell will be set to /bin/false).

Note: Do not use regular expressions in your code.

Exercise 3.2 (review Learn Ruby 4 and 5)

Write a Ruby program which process a text file and removes any blank lines (i.e., those lines which only contain a newline character). Such a program is commonly referred to as a "filter".

Note: Do not use regular expressions in your code.

Exercise 3.3 (review Learn Ruby 6 and the regex handout)

Rewrite the programs you developed in 3.1 and 3.2, above, to take advantage of regular expressions. Ask yourself which solution(s) do you prefer? Ask yourself why?

Exercise 3.4 (review Learn Ruby 1-6)

Write a Ruby program that accepts the name of an existing text file from the command-line, opens the file and transfers its contents in reversed order to a new file which takes as its name the existing text file's name in reverse (while preserving the extension). For example, if mydata.txt is the existing text file with these contents:

And if you walk you're gonna get there although it takes just a little longer and when you see 'em in the distance you will wring your hands and moan ...

your program should create a new file called atadym.txt with the following contents:

you will wring your hands and moan ... and when you see 'em in the distance although it takes just a little longer And if you walk you're gonna get there