

Chapter Exercises Template

Exercises, Chapter 18

Exercise 18.1

Use the `help` function to learn about the `write.table` function. Use the `write.table` function to write the built-in data set `Formaldehyde` (which is a data frame) to an external file named “`file8`”.

Exercise 18.2

Create a file that contains the following two R commands:

```
SmallVector = c(1,2,6)
print(mean(SmallVector))
```

Then enter R and use the `source` function to execute the two commands.

Exercise 18.3

Create a file that contains the data values: 1, 2, and 18. The data values should be separated by *spaces*. Then enter R and read these data values into a vector named `x` with the `scan` function. Print the average of the three values.

Exercise 18.4

Create a file that contains the data values: 1, 2, and 18. The data values should be separated by *commas*. Then enter R and read these data values into a vector named `x` with the `read.csv` (read comma separated values) function. Print the average of the three values.

Exercise 18.5

Enter R and set the object `y` to 4 with the R command `y = 4`. Use the R `dump` function to save `y` to a file (you choose the filename). Use the R `rm` function to remove the object named `y` with the command `rm(y)`. Type `y` to assure that the object no longer exists. Finally, use the `source` function to recover the object named `y` and print its value.

Exercises taken from Chapter 18, “Learning Base R”, by Lawrence M Leemis, ISBN 978-0-9829174-8-0