

Check-in 1

The check-ins will review material presented in class but will also require you to think about new concepts, integrate across topics, and search for information in R help. Some will be complex and take time to figure out. Feel free to work in groups on this.

Please submit the assignment as a pdf file on Canvas. Insert answers within the asterisks, backticks, or code chunks unless directed otherwise.

Problem 1: (3 pts) Find the help documentation for the `read.table()` function from base R. What does the `header` argument do? What is the default value for the `header` argument? Describe two default argument values that differ between `read.table()` and `read.csv()`. Answer each question as a separate bullet point.

Your text goes here (with each answer as a bullet point).

Problem 2: (2 pt) In the backticks below, clean up the following expression to satisfy tidyverse coding style and assign it to the object `myformula`: `((x-mean(x,na.rm=T))^2)/length (x)`.

Type answer here.

Problem 3: (1 pt) Create a new directory on your hard drive called `checkins` (if you have a directory for this course material, put it in there). Save this Rmd file in that directory. Type the full absolute path to this file in between the backticks.

Type path here.

Problem 4: (1 pt) Create a subdirectory in your `checkins/` directory called `R/`. In the `R/` directory, create an R script called `analysis.R` that just includes the command `2+2`. If your working directory is `checkins/`, what code would you type to run the script using relative paths?

```
# Replace this entire line (including the #) with the code to run script.
```

Problem 5: (5 pts) Demonstrate a basic command of Markdown by typing the code for (1) a level 1 heading with the text “My Favorite Foods”, (2) a numbered list with your three favorite foods (ranked), and (3) a sentence that has one word in bold, one word in italics, and a link to a Wikipedia article on your favorite food. Note when you knit this, the output will be the **Markdown code** not the formatted output.

Type level 1 heading here.

Type numbered list code here.

Type sentence here.

Problem 6: (5 pts) Look up the help documentation for the `head()` function in base R and explore the arguments. Using the `{reprex}` package, create a reproducible example that outputs only the first four rows of the `penguins` dataset from the `{palmerpenguins}` package. *Hint: When you run the correct command, the reproducible example is automatically copied to your clipboard.*

Paste your {reprex} output here (but without the asterisks).

Once you complete the assignment, knit it into a PDF and submit in Canvas.