

tidyverse

```
library(tidyverse)
```

Warning: package 'tidyverse' was built under R version 4.3.3

Warning: package 'tidyr' was built under R version 4.3.3

Warning: package 'readr' was built under R version 4.3.3

Warning: package 'purrr' was built under R version 4.3.3

Warning: package 'dplyr' was built under R version 4.3.3

Warning: package 'forcats' was built under R version 4.3.3

Warning: package 'lubridate' was built under R version 4.3.3

-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --

v dplyr 1.1.4 v readr 2.1.5

v forcats 1.0.0 v stringr 1.5.0

v ggplot2 3.5.2 v tibble 3.2.1

v lubridate 1.9.4 v tidyr 1.3.1

v purrr 1.0.4

-- Conflicts ----- tidyverse_conflicts() --

x dplyr::filter() masks stats::filter()

x dplyr::lag() masks stats::lag()

i Use the conflicted package (<<http://conflicted.r-lib.org/>>) to force all conflicts to become

```
library(palmerpenguins)
```

Warning: package 'palmerpenguins' was built under R version 4.3.3

Task 1

Question A

```
?read_csv()
```

starting httpd help server ... done

In 1-2 sentences, explain why we can not use specifically the `read_csv()` to read in these data. This homework assignment asks us to read in two files: `data.txt` and `data2.txt`. We are unable to use `read_csv()` to read in these data because their files do not contain comma separated values—they use semicolons instead.

```
data <- read_csv2("Data/data.txt",  
                  col_names = TRUE)
```

i Using `"', '"` as decimal and `"'.'"'` as grouping mark. Use ``read_delim()`` for more control.

Rows: 2 Columns: 3

-- Column specification -----

Delimiter: ";"

dbl (3): x, y, z

i Use ``spec()`` to retrieve the full column specification for this data.

i Specify the column types or set ``show_col_types = FALSE`` to quiet this message.

```
data
```

A tibble: 2 x 3

	x	y	z
	<dbl>	<dbl>	<dbl>
1	1	2	3
2	5	3	8

Question B

```
six <- read_delim("Data/data2.txt",  
                  delim = "6",  
                  col_names = TRUE,  
                  col_types = "fdc")
```

six

```
# A tibble: 3 x 3  
  x     y z  
  <fct> <dbl> <chr>  
1 1     2 3  
2 5     3 8  
3 7     4 2
```

Task 2

Question A

```
trailblazer <- read_csv("Data/trailblazer.csv",  
                        col_names = TRUE)
```

Rows: 9 Columns: 11

-- Column specification -----

Delimiter: ","

chr (1): Player

dbl (10): Game1_Home, Game2_Home, Game3_Away, Game4_Home, Game5_Home, Game6_...

i Use `spec()` to retrieve the full column specification for this data.

i Specify the column types or set `show_col_types = FALSE` to quiet this message.

```
glimpse(trailblazer)
```

Rows: 9

Columns: 11

\$ Player <chr> "Damian Lillard", "CJ McCollum", "Norman Powell", "Robert ~

\$ Game1_Home <dbl> 20, 24, 14, 8, 20, 5, 11, 2, 7

```
$ Game2_Home <dbl> 19, 28, 16, 6, 9, 5, 18, 8, 11
$ Game3_Away <dbl> 12, 20, NA, 0, 4, 8, 12, 5, 5
$ Game4_Home <dbl> 20, 25, NA, 3, 17, 10, 17, 8, 9
$ Game5_Home <dbl> 25, 14, 12, 9, 14, 9, 5, 3, 8
$ Game6_Away <dbl> 14, 25, 14, 6, 13, 6, 19, 8, 8
$ Game7_Away <dbl> 20, 20, 22, 0, 7, 0, 17, 7, 4
$ Game8_Away <dbl> 26, 21, 23, 6, 6, 7, 15, 0, 0
$ Game9_Home <dbl> 4, 27, 25, 19, 10, 0, 16, 2, 7
$ Game10_Home <dbl> 25, 7, 13, 12, 15, 6, 10, 4, 8
```

Question B

Question C

Task 3

Question A

Question B

Task 4