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 beco
```

```
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")
```

```
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_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")
```

```
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