

Using Tidyverse

Load require libraries

```
#use suppressMessages function to disable messages upon loading a package
suppressMessages(library(tidyverse))
suppressMessages(library(palmerpenguins))
```

Task 1

Question a

We cannot use the `read_csv()` function specifically to read this data because it expects the data to be comma-separated. The data in `data.txt` is separated by a different delimiter (semicolon). `read_csv()` does not allow specifying a different delimiter, so we must use `read_delim()` instead.

```
#read in the data file
data <- read_delim("data/data.txt", delim = ";", col_names = TRUE)
```

Rows: 2 Columns: 3

-- Column specification -----

Delimiter: ";"

chr (2): y, z

dbl (1): x

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.

```
#have all variables have type "dbl"
data <- data |>
  mutate(across(everything(), as.double))

#display the data
data
```

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

Question b

```
#read in the data file
data2 <- read_delim("data/data2.txt", delim = "6", col_names = TRUE,
  col_types = "fdc") #'f' for fct, 'd' for dbl, 'c' for chr

#display the data
data2
```

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