## Warmup: functions

## Group members:

**Instructions:** Work with a neighbor on the following activity. I will collect the handout at the end of class, and it will be part of your class participation grade. You will be graded only on effort – it is ok if you don't finish all the questions, or get them all correct.

## diamonds data

The diamonds dataset in the ggplot2 package contains information on over 50000 rough cut diamonds.

Your friend is working with the diamonds data, and sends you the following code:

```
library(tidyverse)

z_score <- function(x) {
    (x - mean(x, na.rm = TRUE)) / sd(x, na.rm = TRUE)
}

diamonds_new <- diamonds |>
    mutate(carat_z = z_score(carat))
```

1. Explain what the code is doing.

2. The diamonds dataset has 53940 rows and 10 columns. What will be the dimensions of the diamonds\_new dataset?