forcats practical

Jumping Rivers

First we'll load the data and the relevant packages

```
library(forcats)
library(tidyverse)
data(okcupid, package = "jrTidyverse")
```

This is the okcupid data from yesterday's course. We're going to specifically focus on how drinking affects income.

Question 1

- a) The column drinks corresponds to a persons answer about their drinking habits. What is the average income of each group of drinking habits? Save this as a data frame called drinks_in and have the column containing the average income called av_in Hint: use group_by() then summarise()
- b) We can plot the average incomes using **ggplot2**

```
drinks_in %>%
  ggplot(aes(x = drinks, y = av_in)) +
  geom_point()
```

c) Previously we saw how to rename factors using fct_recode(). However, this will not work with missing values i.e. NA's. A function that will is fct_explicit_na(). Try running

```
x = c(1,2,3,NA)
(y = factor(x))
```

Notice how the NA isn't included in the factors?

```
fct_explicit_na(y, "unknown")
```

That will rename the NA factors as "Unknown". Before plotting, use mutate() and fct_explicit_na() to rename the missing values to something more appropriate.

- d) Before plotting, reorder the points from lowest average income to highest. Hint: use mutate() and fct_reorder()
- e) Before plotting, instead of ordering the points from lowest income to highest, order them from people who drink least to people who drink most. Put "Unknown" where you deem appropriate. Hint: use fct_relevel()
- f) Go back to before we summarised the average income of each group. Summarise the groups average income in the same way, but this time collapse "not at all" and "rarely" into "low", "socially" and "often" into "medium" and then "very often" and "desperately" into "high".