Lab 2: Intro to R

Eric Fischer

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```
# Load the tidyverse and openintro packages, or libraries.

# Insert code for Exercise 0 here (already done for you)
library(tidyverse)
library(openintro)
```

Exercise 1

```
# Print the arbuthnot dataframe, available to us from the openintro package.
# Take a glimpse() of the arbuthnot dataframe.
# Print the girls column/feature/attribute of the arbuthnot dataframe.

# Insert code for Exercise 1 here
```

Exercise 2

```
# Make a ggplot() using the arbuthnot dataframe, with year on the x-axis and girls on the y-axis.
# (Ensure the plot is a combined scatterplot and line graph.)

# Insert code for Exercise 2 here
# geom_point() -> scatterplots
# geom_line() -> line graph
```

Exercise 3

```
# Mutate() the arbuthnot dataframe in memory such that it has 2 new columns/features/attributes,
# total (boys + girls) and boy_ratio (boys / total).
# Make a line graph plot using the arbuthnot dataframe, with year on the x-axis and total on the y-axis
# Make a line graph plot using the arbuthnot dataframe, with year on the x-axis and boy_ratio on the y-

# Insert code for Exercise 3 here
```

Exercise 4

```
# Print the unique() values of the year column/feature/attribute of the present dataframe (e.g., presen
# available to us from the openintro package.
# Print the dimensions of the present dataframe.
# Print the column names of the present dataframe.

# Insert code for Exercise 4 here
```

Exercise 5

```
# Print the mean of the boys column/feature/attribute of the present dataframe, divided by
# the mean of the boys column/feature/attribute of the arbuthnot dataframe.
# Print the mean of the girls column/feature/attribute of the present dataframe, divided by
# the mean of the girls column/feature/attribute of the arbuthnot dataframe.

# Insert code for Exercise 5 here
```

Exercise 6

```
# Mutate() the present dataframe in memory such that it has 2 new columns/features/attributes,
# total (boys + girls) and boy_ratio (boys / total).
# Make a line graph plot using the present dataframe, with year on the x-axis and total on the y-axis.
# Make a line graph plot using the present dataframe, with year on the x-axis and boy_ratio on the y-ax

# Insert code for Exercise 6 here
```

Exercise 7

```
# Arrange() in descending order using desc() the total column/feature/attribute of the present datafram
# and print the result.

# Insert code for Exercise 7 here
```

```
# Knit (or generate) the R Markdown file into a PDF and submit both this .Rmd file and the PDF.
```