Homework 1

This homework is due on the deadline posted on edX. Please submit a .pdf file of your output and upload a .zip file containing your .Rmd file. Do NOT include your name or EID in your filenames.
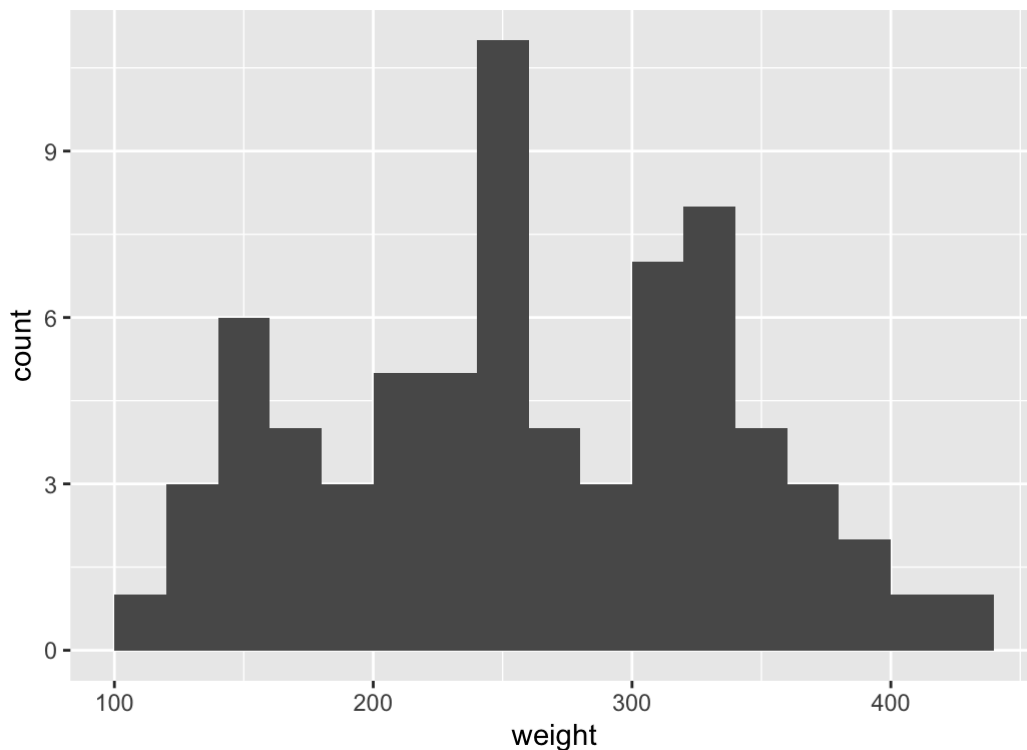
In this homework you will be working with the `chickwts` dataset built into R. This data set contains weight measurements of chicks fed on different food sources to assess their effectiveness on growth rate.

```
head(chickwts)
```

```
##    weight       feed
## 1     179 horsebean
## 2     160 horsebean
## 3     136 horsebean
## 4     227 horsebean
## 5     217 horsebean
## 6     168 horsebean
```

Problem 1: Use ggplot to make a histogram of the `weight` column. Manually choose appropriate values for `binwidth` and `center`. Explain your choice of values in 2-3 sentences.

```
ggplot(chickwts, aes(x=weight)) + geom_histogram(binwidth = 20, center=10)
```


By setting binwidth to 20, we are chunking the weights into 5 ranges per 100 units. By setting center to 10, we are centering each bar on (110,130,150…) Therefore, it is easy to tell how many chickens are in the range 100-119, 120-139, 140-159, etc.

Problem 2: Modify the plot from Problem 1 to show one panel per feed. Hint: Use `facet_wrap()`.

```
ggplot(chickwts, aes(x=weight)) + geom_histogram(binwidth = 20, center=10) + facet_wrap
(~ feed)
```