**Assigned: Monday January 25:**(2-7, 2-8, 2-10, p 26) (3-4,  p 35)

**Problem 2.7**

1. 16 variables
2. 336,776 cases
3. flights that departed NYC in 2013
4. Variable Types
   1. year: quantitative
   2. month: quantitative
   3. day: quantitative
   4. dep\_time: quantitative
   5. dep\_delay: quantitative
   6. arr\_time: quantitative
   7. arr\_delay: quantitative
   8. carrier: categorical
   9. tail\_num: categorical
   10. flight: quantitative
   11. origin: categorical
   12. dest: categorical
   13. air\_time: quantitative
   14. distance: quantitative
   15. hour: quantitative
   16. minute: quantitative
5. Variable Units
   1. air\_time: minutes
   2. distance: miles

**Problem 2.8**

1. Improper syntax for function argument
2. No/Incorrect assignment operator
3. Invalid object name
4. Unmatched quotes in character string
5. No mistake

**Problem 2.10**

* 76 variables in CountryData
* tfat = mass of trunk fat
* 23018 cases in WorldCities
* 3rd variable in BabyNames = count
* Party Codes
  + DEM = Democratic
  + LIB = Libertarian
  + REP = Republican
  + UNA = Unaffiliated

**Problem 3.4**

1. BabyNames: (b) data table name
2. filter: (a) function name
3. name: (c) variable name
4. ==: (a) function name
5. group\_by: (a) function name
6. year: (c) variable name
7. sex: (c) variable name
8. summarise: (a) function name
9. yearlyTotal: (d) name of a named argument
10. sum: (a) function name
11. count: (c) variable name
12. ggplot: (a) function name
13. aes: (a) function name
14. x: (d) name of a named argument
15. y: (d) name of a named argument
16. geom\_point: (a) function name
17. color: (d) name of a named argument
18. geom\_vline: (a) function name
19. xintercept: (d) name of a named argument

**Assigned: Wednesday January 27:  (**3-5, 3-6 p. 35) (4-1, 4-5 p. 45)

**Problem 3.5**

* brainwt: brain weight in kilograms
* 83 cases
* Mammals of certain weights
* vore levels:
  + carnivore, omnivore, or herbivore

**Problem 3.6**

* (c) does not belong because it assigns the average of all the count values to totalBirths instead of sum, like the others

**Problem 4.1**

* \*one\* : italicized
* \*\*two\*\* : bolded
* \* three : bulleted
* # Four : h1 header
* ‘five’ : code
* ## six: h2 header
* [seven](http://tiny.cc/dcf/index.html): link

**Problem 4.5**

---  
title: "Birds of the World"  
author: "JJ Audubon"  
date: ""  
output:   
html\_document:  
fig\_height: 3  
fig\_width: 5  
---  
<!-- Don't edit in between this line and the one below -->  
```{r include=FALSE}  
# Don't delete this chunk if you are using the DataComputing package  
library(DataComputing)  
```  
\*Source file\*   
```{r, results='asis', echo=FALSE}  
includeSourceDocuments()  
```  
<!-- Don't edit the material above this line -->  
There are many species of birds in the world. From my studio, I can see

\* Blue Jays  
\* Cardinals  
\* Robins  
\* Crows  
\* Sparrows