csci297b Exercise 6 dplyr

For this project, use the dplyr library and pipes.

- 1. Since sharing projects does not work on our server, you do not have to put this exercise into a project. Submit just the R markdown file.
- 2. Open a new R markdown file in the project called exercise06.Rmd
- 3. Load the nycflights13 dataset
- 4. In a single pipeline, find all flights that meet all of the following conditions:
 - Had an arrival delay of two or more hours
 - Flew to Houston (IAH or HOU)
 - Were operated by United, American, or Delta
 - Departed in summer (July, August, and September)
 - Arrived more than two hours late, but didn't leave late
 - Were delayed by at least an hour, but made up over 30 minutes in flight
- 5. Sort flights to find the flights with longest departure delays. Find the flights that left earliest in the morning.
- 6. Sort flights to find the fastest flights. (Hint: Try including a math calculation inside of your function.)
- 7. Was there a flight on every day of 2013?
- 8. Which flights traveled the farthest distance? Which traveled the least distance?
- 9. Does it matter what order you used filter() and arrange() if you're using both? Why/why not? Think about the results and how much work the functions would have to do.