Project 05 Answer Key

Question 1a

```
# Use read.csv() to read the LA AirBnB data into RStudio
LA_airbnb = read.csv("/class/datamine/data/airbnb/united-states/ca/los-angeles
   /2019-07-08/visualisations/listings.csv")
# Use tapply() to calculate the number of reviews each host ID received
reviews by host = tapply(LA airbnb$number of reviews, LA airbnb$host id, sum)
# Use sort() to order the hosts by their respective review counts
# Use tail() to get the hosts with the largest number of reviews
tail(sort(reviews_by_host))
>>>
31102550
          1648958 41881230 125558867
                                        2622454 21013529
   2666
             3038
                       3088
                                 3575
                                           4542
                                                     5505
```

Question 1b

```
# Use tapply() to get the AirBnB review totals for each LA neighborhood
reviews_by_neighborhood = tapply(LA_airbnb$number_of_reviews,
   LA_airbnb$neighbourhood, sum)
# Use sort() to order the neighborhoods by number of reviews
# Use tail() to get the 6 neighborhoods with the most reviews
tail(sort(reviews by neighborhood))
>>>
Hollywood Hills
                                                     Long Beach
                   Silver Lake
                                       Downtown
                         41625
                                                          58224
         38729
                                          56661
     Hollywood
                         Venice
         94767
                        151629
```

Question 2a

```
# Use read.csv() to read the flights data into RStudio
flights = read.csv("/class/datamine/data/flights/2019.csv")
# Use paste() to create a new column by combining the ORIGIN and DEST columns
flights$myflightpath = paste(flights$ORIGIN, flights$DEST)
# Use head() to check that the new column exists and was created successfully
head(flights$myflightpath)
>>>
[1] "MSP CVG" "MSP CVG" "MSP CVG" "MSP CVG" "MSP CVG" "MSP CVG"
```

Question 2b

```
# Use tapply() to get the mean departure delay of each flight path
delay_by_path = tapply(flights$DEP_DELAY, flights$myflightpath, mean)
# Use sort() to order the flight paths by mean departure delay
# Use tail() to get the 6 flight paths with the highest mean departure delay
tail(sort(delay_by_path))
>>>
ANC DFW GEG LWS AUS CMH CMH AUS AZA MEM VPS SRQ
158.5333 210.0000 217.0000 218.0000 297.0000 720.0000
```

Question 3a

Question 3b