Pandas Skills to practice

1) Read documentation
2) Import a csv
3) Subsetting a DataFrame
4) Filter rows with .loc to meet some criterion
    a. Filter to only get types A, B, and C
    b. Filter to only get values between X and Y
    c. Filter to get values where column A is greater than column B
    d. Filter to remove rows where column A has missing values
5) Slice a series
6) Finding the dimensions/shape of a DataFrame and series
7) Identify unique values in a series
8) Count how many unique values exist in a series
9) Count up how many times each value appears in a series
10) Extract the values in a series without the index
11) Modify the index of a series / DataFrame
12) Modify the index of a series so it matches the index of another series
13) Create a new column of values by adding/subtracting the values of two other columns
14) Create a new column of values by combining the characters of other columns (for example creating a string for a date using the two columns: Month and Day)
15) Create a new column by extracting say the month from a date.
16) Create a column of date_time values
17) Fill in missing values in a column
    a. Forward fill, back-fill
    b. Fill using the mean value of the column
18) Calculate summary stats of DataFrame
    a. means and sums of columns and rows
    b. How many values are missing in a column or row
19) Group values in a DataFrame together and then calculate summary stats
    a. Example: Find the mean weight for groups created by gender and age... men 20-29, men 30-39, ..., women 20-29, women 30-39, etc.
    b. Find the difference between these newly created columns: what is the difference between the avg weight of men and women in the 20-29 group, the difference between the avg weight of men and women in the 30-39 group, etc.
    c. Perhaps you need to look up how to create groups based on age – maybe the function cut()
20) Create and manipulate a multi-index
21) Reshape a 'long' dataset to be 'wide'
22) Probably more...