No Help HW:

Due Thursday Dec 15 at 11:59 pm on Brightspace.

“No help” means no seeking out solutions from your peers or strangers on the internet. Your work should be your own and represent your understanding. You may use any notes you’ve taken, past assignments you did, informational websites (e.g., <https://matplotlib.org>, <https://www.python.org>, etc) or ipython notebooks from class to help you.

Write a script that reads in data and finds the median value of a column. A dataset has been provided for you to test your code with. Points will be given for the following items:

1. Code properly reads in a file, line by line. Alternatively, you are welcome to use pandas (10 pts)
2. Define a new function that calculates the median value for each column. (10 pts)
3. Code writes median values to a new file. (10 pts)
4. Code creates a histogram of each column of data with labels. (10 pts)

Extra credit points:

1. Code can handle missing values (eg “NA”). (10 pts)
2. Code optionally replaces missing values (“NA”) with the mean value of the column. (10 pts)

Please submit your code as an ipython notebook.