Part 2 Exam 1:

251 and 502:

1. Boxplots:
   1. comparison/boxplots of cancer rates between males and females ('all races' and 'all ages')
   2. comparison/boxplots of cancer rates for 'both sexes' and 'all ages' across the ethnic groups (all and individual)
   3. comparison/boxplots of cancer for 'both sexes' and 'all races' across the age groups (all and individual age groups)
2. time plots of above subsets of data (3 total)
3. Other requirements
   1. give me the structure of the initial dataset attributes
   2. adjust column names and make more appropriate for your visuals
   3. include a title, x-axis label, y-axis label, and legend
   4. provide code where the only thing I have to change is the read.csv file path and be able to run the code
   5. do not change the name of the file.
   6. hints:
      1. subset in R using subset function (may need to do multi-step subsetting)
      2. will need to change rates to numeric; this is going to be done smoothly if you first convert the variable to character using as.character, and then apply as.numeric
   7. Provide a brief interpretation of the trends of each plot

Grad Students also need to address the below:

Use the covid dataset provided. Make necessary adjustments as needed in R so it can be reproducible and appropriately visualize in Tableau. Include filters for Cases vs Deaths. You do not need the fips column as is stated within the file, so that should not appear in your Tableau visual. Explain what you observe when mapping the number of cases versus the number of deaths.

Filter should only have options for ‘All’, ‘Cases’,’Deaths’ and the color should be for the numeric values of cases and deaths.