Problem 3

1. Source:
   1. Weekly data of top 15 diseases in US from 1888 - Project Tycho (U of Pitt) [link](https://www.tycho.pitt.edu/). This included ~3 million records. Also, US population over time by state and region – Wikipedia [link](https://en.wikipedia.org/wiki/List_of_U.S._states_by_historical_population)
2. Questions
   1. For a given 10-year period or less, which disease had the greatest difference in max yearly count to min yearly count? Name the disease, date-range, min year count, and max year count.
   2. For a given year and state, which disease had the most reported cases in a year as a percentage of that state’s population? Name the disease, year, state, and percentage.
   3. For a given year, which disease had the greatest difference between US regions (Midwest, Northeast, South, and West) as a percentage of that region’s population? Name the disease, year, max region, min region.
3. Answers
   1. Influenza from 1919 to 1920 went from 2,675 people in a year to 344,402 people in a year.
   2. In 1940, Influenza was reported in nearly 4% of the population of Utah.
   3. In 1940, Influenza only affected 0.008% of the population in the Northeast region but nearly 1% of the population in the South.