Assignment

Compute the statistics on the distribution of the last digit ("cent" position) for the opening price for your stock for 5 years. Generate a vector of actual frequencies for your digits $0, \ldots, 9$ as $A = (a_0, a_1, \ldots, a_9)$. Let prediction vector be $P = (0.1, 0.1, \ldots, 0.1)$ In other words, we assume that each digit is equally likely and occurs 10% of the time.

Questions:

1. what is the most frequent digit?
2. what is the least frequent digit?
3. compute the following 4 error metrics for your data:
   (a) max absolute error
   (b) median absolute error
   (c) mean absolute error
   (d) root mean squared error (RMSE)

   Summarize your findings in a table (5 rows for each year) and discuss your results.