

Andrew Kirby
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LING82100

Homework 1

Part 1

For this part, I did some basic calculations for the first two problems. For problem #3, I used the hint: I set the variable `f` to 440 with a `<-` , and used `'log'` for the `'ln'` in the formula. For problem #4, I set the variables `a`, `b`, and `c` to the appropriate values, and wrote out the equation.

Part 2

For this part, I used the `'read.csv'` command and the URL to the Well-formedness website to open the .csv file in R. I set the header to true, so that I could get a header with the display. I then used the `'table'` function to display the values in the console. Since the data was small, I eyeballed the values and did some basic calculations.

Part 3

Again following the hint, I used the `'read.table'` command to open the .vst file, and set it to a variable `VOT`. Since the data in this part was much larger than in Part 2, I could not easily 'eyeball' the data. I used the `$vot` command and `'quantile'` to calculate the quartiles for that column. I then created two more variables: `spanishVOT` and `englishVOT`, and used the `subset` command to create new data frames with just Spanish and English data, respectively. Then, I calculated the mean and used `'sd'` to calculate the standard deviation, along with `$vot` for that column.