

Problem Statement

Write a function that takes in a list of numbers and returns a dictionary containing the following statistics about the numbers: the mean, median, mode, sample variance, sample standard deviation, and 95% confidence interval for the mean.

Note that:

- 1] You can assume that the given list contains a large-enough number of samples from a population to use a z-score of 1.96.
- 2] If there's more than one mode, your function can return any of them.
- 3] You shouldn't use any libraries.
- 4] Your output values will automatically be rounded to the fourth decimal.