Statistics Homework 3

Mr. Grant

July 11, 2017

Due Date: Wednesday, July 12th Turn in this homework by emailing me (SLGstats@uw.edu) an R file with these four functions in it. The file should be named [firstname]_[lastname]_hw3.R.

- 1. Write an R function for the mathematical function $f(x) = 4x^2 + 3x + \sqrt{x} + \sin(x) + 7$.
- 2. Write a function that takes in a vector and returns the first 5 elements of that vector, or the phrase "Vector too short!" if the vector has length less than 5.
- 3. Write a function that takes in a whole number n and returns the sum of all the positive odd numbers less than or equal to n.
- 4. Write a function that takes in three numbers and returns the "middle" number. That is, the function should take in inputs a, b, and c, and return a if $b \le a \le c$ or $c \le a \le b$, etc.