Introduction to the R Statistical Computing Environment Getting Started With R: Exercises

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- 1. If you haven't already done so, install R and RStudio on your computer (instructions are on the lecture-series website) and verify that they work. Install the R packages used in the lecture series (again, instructions are on the lecture-series website).
- 2. * Write a function MAD() to compute the median absolute deviation from the median,

$$MAD = median[|x_i - median(x_i)|]$$

Confirm that your function works by comparing its results with those from the standard R mad() function, using, e.g., MAD(1:100) and mad(100, constant=1). Then look at how mad() is programmed and compare it to your solution. In making the comparison to your function, be sure to set the argument constant=1 in the call to mad() (see ?mad for an explanation of the constant argument).

^{*}I'll provide answers for exercises marked with an asterisk (*).