

# STAT 280: Statistical Programming

Instructor: H Pezeshk

**Assignment 3 [Posted: Thursday February 8, 2024]**

**Due: 8:00pm Thursday February 15, 2024**

Suggested exercises from textbook: A first course in statistical programming with R, Third Edition. Braun, W. J., & Murdoch, D. J. (2021). Cambridge University Press.

## Instructions

- Students should upload their solutions on Moodle before due date. Late submissions will not be accepted.
- Solutions should be uploaded as a single PDF.
- Make sure to clearly state the problem number in your solutions. Always show the code used to solve an exercise (not the output only, unless explicitly stated) and comment on your code by using `#` where appropriate.
- Readability of code and clarity of presentation will be taken into account when marking.

## Textbook problems

- Section 2.6; Problems **1** and **3** on page 34:  
(**Problem 1** "The following are a sample ... and `srm2`." ).  
(**Problem 3** "Calculate  $\sum_{n=1}^{15} \max(2^n, n^3)$ ").
- Section 2.9; Problem **2** on page 46:  
(**Problem 2** "Consider the built-in `USArrests`...sampled without replacement").
- Chapter 2 ; Problems **3**, **6** and **7** on pages 50 and 51  
(**Problem 3** "Consider the built-in ....were not fed linseed").  
(**Problem 6** "Plot the graph....on interval  $[0,6]$ ").  
(**Problem 7** "The goal of this ...., Which file takes the most memory?").