

STAT 280 B: Statistical Programming

Instructor: H Pezeshk

Assignment 6 [Posted: Thursday, March 14, 2024]

Due: 8:00pm Thursday, March 21, 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 4.1.3; Problems **1, 2, 3, 4** and **5** on page 104:
(**Problem 1** "The variable oldFib2 ... of Fib1 and Fib2.")
(**Problem 2** "In fact Fib1 and Fib2 variables except Fibonacci.")
(**Problem 3** "Determine the number numbers less than 1000000.")
(**Problem 4** "Recall the car dealer interest rate other starting guesses?")
(**Problem 5** "Referring to the previous are less than 0.000001 apart.")
- Section 4.1.4; Problems **4, 5** and **6** on pages 105 - 106:
(**Problem 4** "Find the minimizer of the..... $f(x) = (x - 3)^4 + 7(x - 2)^2 + x$."
(**Problem 5** "How many zeros does the function..... (d) 1.25."
(**Problem 6** "How many zeros does the function(d) 3.01.")
- Section 4.1.5 ; Problem **2(c)** on page 107 - 108
(**Problem 2(c)** "Modify this functionof the above result").