

# STOR 664 Homework 3, Fall 2023

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September 15, 2023

Due: Thursday October 5. Hand in on gradescope no later than 11:59 pm, October 5, 2023.

This homework is essentially to solve last year's midterm exam. You can download it here:

<http://www.rls.sites.oasis.unc.edu/s664-23/PastExams/MT664-2022.pdf>

Some notes:

1. Although I am not requiring you to do this under “examination conditions”, please be aware of what they were: it was an in-class exam with a time limit of 75 minutes, open book and notes, computers allowed only for the purpose of accessing electronic notes or text. Some of the questions (e.g. numerical results on the F test) may benefit from you using R to obtain an actual numerical answer — it's fine with me (and encouraged) if you do that, but please, no trying to find software packages to calculate power. Also, although the strong Honor Code will be in force on the actual exam, for the homework assignment, I have no objection to you working together before you write your individual solutions, as with other homework assignments.
2. The questions assume knowledge of sections 2.10 and 2.11, which we haven't covered yet, from the revised version of the course notes. We should have covered those sections by the time you have to complete this assignment. You don't need to read the more theoretical section 2.13 in order to complete this assignment.
3. I will post the solutions after the assignment is due and before this year's midterm on October 12.
4. For comparability purposes, the grading will follow the same points scheme as the original exam (25+10+25+20+20) but will be rescaled to a total of 20 for the official homework score.
5. Any queries, feel free to contact me, as usual.