

Stat 238, Spring 2025

Homework 4

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Due: by **11:00 am** Tuesday, April 15th, 2025

Submission Instructions

Homework assignments may have a written portion and a code portion. Please follow the directions here [Homework Guidelines Ed post](#) when submitting, and check the link for homework policies.

This homework focuses on the algorithms introduced in the first half of the computation unit.

Problems eligible for spot grading are marked with an asterisk. These are problems 13.5, 13.9, 10.6 and 7, 11.3. Please mark at least two problems for spot grading. Note, these will be graded for effort, not accuracy, so you should select the problems that show your best problem-solving effort. The goal is to target our attention to give you meaningful feedback on your work. All problems will be checked for completion and basic accuracy.

Book Problems

Please complete the following problems from *Bayesian Data Analysis* (Third Edition).

- Chapter 13: problems 5 (a - d)*, 9 (b)*
- Chapter 10: problems 1 (a), 5 (a - b), (6 and 7)*¹
- Chapter 11: problems 3*, 5 (a), 6 (a)

Problem 0: Spot Grading

Select two problems from the problems marked with an asterisk for spot grading.

¹If selected, problems 6 and 7 should be spot graded collectively as one problem.