

# Problem Set 3

Due Thursday Mar. 6, 12:30 pm

## Comments

- I haven't fully worked these problems myself, so if you run into any strange issues, please post on Ed as there could be mistakes/oversights on my part.
- Please submit as a PDF to Gradescope.
- Please generate the PDF using Quarto. Feel free to work in a Jupyter notebook and then convert to Quarto before rendering to PDF. Other formats that look professional and are designed for working with code and math notation may also be fine - just check with me via a public post on Ed first.
- Remember to note at the start of your document the names of any other students that you worked with on the problem set (or indicating you didn't work with anyone if that was the case) and then indicate in the text or in code comments any specific ideas or code you borrowed from another student or any online reference (including ChatGPT or the like).
- In general, your solution should not just be code - you should have text describing how you approached the problem and what decisions/conclusions you made, though for simple problems, this can be quite short. Your code should have comments indicating what each function or block of code does, and for any lines of code or code constructs that may be hard to understand, a comment indicating what that code does.
- You do not need to (and should not) show exhaustive output, but in general you should show short examples of what your code does to demonstrate its functionality. The output should be produced as a result of the code chunks being run during the rendering process, not by copy-pasting of output from running the code separately (and definitely not as screenshots).
- I do not recommend writing initial answers using a ChatBot, as I think you are likely to fool yourself in terms of how much you are learning about Julia and programming concepts/skills more generally. But it's up to you to decide how heavily to rely on a ChatBot. And refining your initial answers using a ChatBot seems like a good strategy. Using your own knowledge and information online to check the results of a ChatBot and using a ChatBot to check your own coding can both be important/useful.

## Problems

[UNDER CONSTRUCTION]