

# Coding Challenge 1: Instructions

ADS2

Semester 1 2023/24

## Technical Instructions

You have 3 hours to complete this assignment. There are **three** questions, all of which need to be completed. The instructions and datasets (.csv files) can be downloaded from Blackboard Learn.

Please make an R Markdown file for your response. A template is provided. Please follow the structure set out in the template. Please remember to include your roll number (but not your name) in the author field, as well as in the name of the final document.

The final submission is a pdf knitted from the R Markdown file (if you cannot knit to pdf directly, then knit to Word and convert the outcome to a pdf file using the “Export” function in Word or another text editor).

The submission should contain explanatory text, answers to questions, all results, and all the code used to generate the results. There is one exception: When you read a .csv file and if your name is in the file path, you are allowed to hide that code chunk, so that your anonymity is maintained.

You will be graded not only on your answers to the questions, but also on your ability to compile a well-formatted and readable R Markdown document. It is therefore advisable to knit early and often, and check that your document can be knitted without errors and that the result is in line with your expectations. If you have code chunks that take a long time to run, use the code chunk option `cache = TRUE`. This means that the results of the code chunk get saved and will be used in the next knit, instead of being computed again (provided the code chunk has not changed).

Please upload your pdf file to the assessment dropbox at the end of the assignment. We are aware that due to increased traffic when everybody uploads their file, your upload may be a few minutes past the deadline. In such cases, we will consult the time at which the pdf document was produced and use this to determine whether or not your submission counts as a late submission. If so, the same penalties apply as for other in-course assessments.

## Honour Code

This is an open-book assessment. This means you are allowed to work on your own computer, consult your previous notes, and use your previous code. You are also allowed to look up commands online, if you need to (though the assessment is designed in such a way that you should not need commands or methods beyond what has been taught in this class). If you use code from an online source, please state what the source is (name of site, author if possible, url, date accessed).

You are **not** allowed to work with other students on this assessment. This is why we do not allow mobile phones. Of course, because we are allowing internet access, we cannot completely rule out the possibility of you working together. But we ask that you don't.

We appeal to your sense of honour and integrity. It is wrong to cheat, so don't do it.

By submitting this assignment, you declare that this is the result of your own work and that you did not either get help from, or help, other students.

If, in marking the finished work, we find evidence that students have colluded, this will be treated as a potential violation of academic integrity and brought before the ZAMO.