

STAT40180/STAT40620 Data Programming.

Lab 1: Introduction to R.

1. If you have your own laptop then please install R and Rstudio on it (see the document ‘How to Download R and RStudio’ for instructions if you need them). Otherwise, log into UCD Connect and find Rstudio under ‘Application Juke- box/Software for U’ in the ‘Mathematics and Statistics’ folder. Another option is to install R and Rstudio on a USB stick and run everything from there.
2. Familiarise yourself with the Rstudio layout. Learn about some of the features of Rstudio at www.rstudio.com/ide/.
3. Download `Lecture1code.R` from the week 1 Learning Materials folder on Blackboard. Open it in to Rstudio and try running some of the commands using the keyboard shortcuts and the mouse.
4. Get some help! Try searching for help on some of the commands used in the week 1 R code file. Try searching help (using `help.search` or `??`) for other topics.
5. Re-write the `oddnumbers` R code function for even numbers instead.
6. Re-write it again for numbers divisible by 10.
7. Re-write the `oddnumbers` function to give the number of prime numbers instead. (Hint: you might like to use the functions `any()` or `all()` here).