# Psych 6136: Assignment 2

## Readings

* DDAR, Ch 2 (read again)
* DDAR, Ch 3

## Supplements

Discrete distributions are described in more detail in J. K. Lindsey (1995), *Modelling Frequency and Count Data*, Oxford, ISBN 0-19-852331-9, Ch. 1 & Ch. 6.

Wikipedia pages on the [Binomial distribution](http://en.wikipedia.org/wiki/Binomial_distribution), the [Poisson distribution](http://en.wikipedia.org/wiki/Poisson_distribution) and other discrete distributions contain fairly comprehensive summaries with graphs and properties.

## Exercises

For these problems in R, try to follow the instructions on Assignment 1 for working with an R script as an “R Notebook” that you can compile (File -> Compile report). An alternative method is to use “R Markdown” <http://rmarkdown.rstudio.com/>. This is more like writing (using simple markdown formatting), and including R code in “code chunks”.

1. DDAR: Ex 2.3
2. DDAR, Ex 3.1
3. DDAR, Ex 3.3; part (c) should be: make a reasonable plot showing departure from the binomial distribution. Add part (d): Suggest some reasons why the number of women in queues of length 10 might depart from a binomial distribution, Bin(n=10, p=1/2).
4. DDAR: Ex 3.4