Mango Coding Test

Data analysis

Read in the csv containing NBA free throws. Visualise some aspect of the data you find interesting, e.g., the average number of free throws per period for the regular season and the playoffs.

Programming

Function

Write a function that will draw random numbers from a given distribution. The function should take one argument for the number of samples and a second argument which specifies the distribution (Normal, Poisson or Binomial). The function should be able to handle additional parameters depending on the distribution chosen, e.g., a lambda for Poisson samples.

Object-oriented programming

Use the class system of your choice to create a summary method for the output of your function.

Package

Build a package containing the functions above. Use any tools as necessary.