

Read ME

Various examples/ exercises from Ch 14 of Bain and Engelhardt's *Introduction to probability and Mathematical Statistics* are coded. The topic of this chapter is Non-parametric methods, i.e. approaches which do not presume foreknowledge of the probability density function.

The paired sample randomization test is in terms of coding the most interesting as it deals with a permutation algorithm. However, this code is currently handicapped by the fact that more than $7!$ permutations for a vector of length 7 or greater are impracticable. In the near future when I study integer optimization/ dynamic programming techniques I aim to improve on this. Really this particular code should also be updated with a normal approximation for larger samples as most of the other algorithms in this folder have been.

Also note that the tables in tables.py are far from complete. There are a number of tables I'd like to add, and one in there that is not even finished. But the functionality is there. All the user needs to do is some basic data entry to extend the tables if a desired value is not there.