PS 787 Assignment 5 (Dec 4, 2008)

This assignment focuses on the randomization inference methods for experiments described in the paper by Luke Keele, Corrine McConnaughy and Ismail White, 2008, "Statistical Inference For Experiments." The assignment is to emulate their reanalysis of the Fowler-Kam (2007) experiment data, in particular the results reported for strong partisans in Keele et al. (2008), Table 3 and Table 4.

In `assign5.zip` the file `Rand Test Demo.R` (by Luke Keele) contains a variety of demo functions. See the comments in the file. The file `Re-Analysis FowlerKam.R` (also by Luke Keele) has commands to replicate the results in the two tables, using the data in files `Strong Partisans.dta` and `Weak Partisans.dta`. If you run this file on your computer, you'll need to change (or comment out) the path setting in line 9.

The data file has four variables:

treat the treatment indicator (three levels: "Out Party," "In Party" and "Anon")

pair1 a variable that indicates "Out Party" the "In Party" contrast ("Anon" values are missing)

pair2 a variable that indicates "Anon" the "In Party" contrast ("Out Party" values are missing)

str_part the outcome variable

The re-analysis **R** file `Re-Analysis FowlerKam.R` provides a roadmap for running parallel analyses with different data. File `altdata.csv` has such a dataset: a version of the Strong Partisans data with the outcome variable perturbed. The job for this assignment is to perform analysis emulating the original "Strong Partisans" analyses (reported in the two tables) using this modifed dataset. Also report estimates for the means for each treatment level (which are not reported in Keele et al. 2008).

Tentative due data is Dec 15.