What I need to do:

- Required modifications of original 'fast HHG for independence' code **bundle proposed code** into LaTex algorithm before implementation
 - Adjust input to expected K-sample data format (if necessary)
 - Change procedure of data processing into K-sample version
 - x = category, y = observation
 - Processed data for univariate testing will be (xi, |yi z|)
 - Change univariate test used to appropriate type
 - KS or AD univariate K-sample tests scipy offers implementations
 - minP Heller's proposed univariate K-sample test from "Consistent distribution-free K-sample and independence tests for univariate random variables" (2016)
 - Process: aggregates scores from all possible partitions of the data –
 score is a likelihood ratio test statistic based on observed vs expected count within a given partition
 - Based on paper results, most powerful univariate K-sample test, very effective in clustered data as compared to other tests
 - Implementation exists in R, can be used for reference and comparison
 - Possible issue to watch out for: how p-value is generated
- **Confirm replication** with the two-sample experiments done in paper
 - Limitations: no code implementation from paper, so comparison to obtained values and figures by eye at best
- K-sample power test

What I want to do:

- Expand 'center point' strategy from single point into pooled points
 - All sample point is treated as 'center points' and used to gather a collection of univariate test results (both statistics and p-values)
 - Proposed approach: sort p-values and apply a global hypothesis test to determine final rejection
 - Bonferroni test or Hommel test
 - Computationally efficient