Updating the logic model violations because now that I’m using it to pull data to answer actual questions, I can see where some tweaks will make it easier.

This example is written for RCH Surveys.

**Tallying Violations**

Replace the two columns “Violations List” and “R-tags” with a column that tallies the number of separate violations.

Unique R-Tags = Number

The way Excel calculates this is to make a list and check its length – Python might have something else, but Excel-wise you would do the following:

1. Remove all R100 or R 100
2. Remove all repeated numbers
3. Remove all R’s
4. Put into a comma-delineated list without any spaces
5. Compare the length of the list to what the length would be with “,” removed.
6. The difference is the number of violations

**Scope and Severity**

We could try simplifying grouping the findings – then it won’t matter if some of the letters are coming through weird because we’re looking for the existence of a couple of tags and then marking in binary categories if they exist. The categories are:

* Immediate Jeopardy
* Actual Harm
* Substantial Compliance

The run of steps for this would be:

1. Pull the letters following “SS=” (what the program is currently doing)
2. Within this grouping look for any instance of the following letters and mark as 0/1 if that category of tag is found:
   1. J, K, or L = IJ Tag to 1
   2. G, H, I = Actual Harm to 1
   3. If a facility does NOT have J, K, L, G, H, I and DOES have A, B, C, or D = Substantial Compliance to 1

And no, I don’t know what happens with E or F.