Writing and Editing Truth Tables

This document explains the meaning and format of the current truth tables and their values.

Although, it's possible to change these formats. It will require changes in the extraction and evaluation functions so that the formats match.

General Notes

- Must be in csv format.
- Column headings must be standard parameters (case, mode, prescription dose ...).
- Mode and Energy are not evaluated with a pass/fail value.
- Other parameters (Prescription Point, Isocenter, Override, Couch, Meas.) have not been implemented, therefore no formats have been specified yet.
- Unless otherwise specified, there should be no spaces in any truth table entries.
- There are specified formats for Gantry angle, SSD, Prescripton Dose/# Fractions, Wedge Angle, Collimator, and Field Size.

Parameter Values

- Gantry angle:
    - dash (-) indicating all values pass
    - numbers separated by commas to indicate the gantry of each beam
- SSD:
    - dash (-) indicating all values pass
    - numbers separated by commas to indicate the SSD of each beam. Any number can be replaced with a question mark (?) for a specific beam to indicate it accepts any value.
- Prescription Dose/#:
    - Prescription dose followed by a slash followed by the number of fractions followed by dosimeter unit (e.g. 2/1/-)
    - The dosimeter unit can be dash (-) if all units are accepted, otherwise it can specify MU
- Wedge Angle:
    - Comma separated string of numbers/no wedge
    - "no wedge" has a space inbetween
- Collimator:
    - number, dash or asterix number
    - asterix means the value must not be the following number
- Field Size
    - dash (-) indicating all values pass
    - A single field size can be specified with length by width (e.g. 10x10)
    - Multiple field sizes should be separated by commas, indicating the field size of each beam

There are sample truth tables for level 2 and level 3 (data/truth_table_lvl2.csv, data/truth_table_lvl3.csv), but using the level 2 table will require modifying the code to handle the new possible data values (e.g wedge value of "30 Heel RT").