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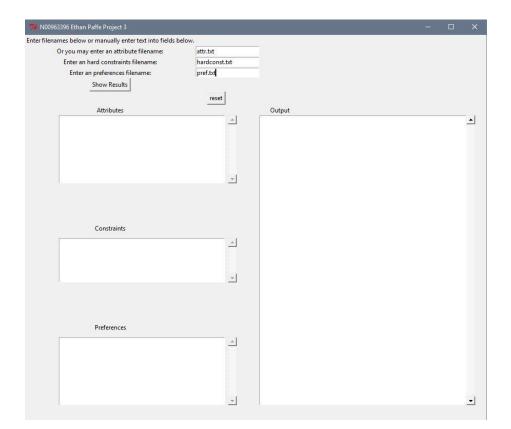
Project 3

3/22/2019

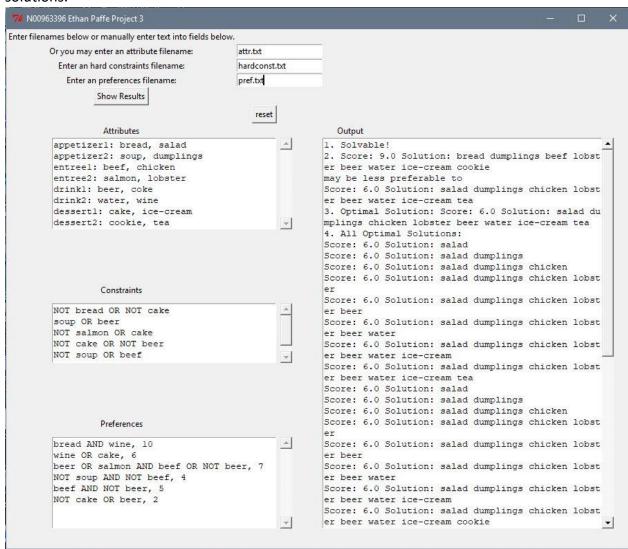
This program functions by parsing the given input, assigning positive and negative values respectively to each attribute, and building a CNF in the format appropriate for CLASP. The interface is designed to be as simple to use as possible and the output is made to be clearly understandable to even inexperienced users. The program then takes the output from CLASP for the hard constraints and plugs the answers into CLASP, summing respective values for each attribute combination that meets the preference constraints, to find the most preferable combination(s).

The testing and results are shown below:

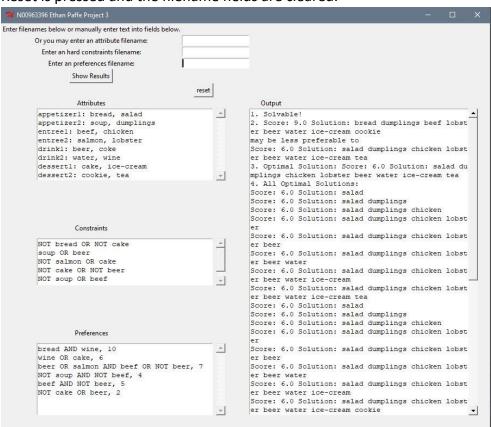
1. The program is run and filenames are entered into the appropriate fields.



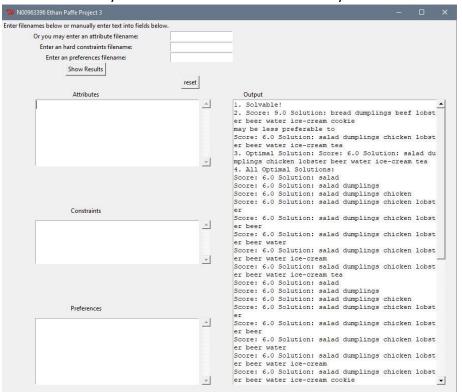
2. Show results is pressed and file contents are shown on the left and results are shown on the right. 1. Shows if the given problem has a solution, 2. Shows preference of one answer set over the other, 3. Displays an optimal solution, and 4. Shows all optimal solutions.



3. Reset is pressed and the filename fields are cleared.



4. The manual entry fields are cleared for manual entry



5. Note the lack of filenames in the top fields, testing data has been entered manually and show results is pressed to obtain the same solutions as the testing data is the same as the file contents; confirming that the program is functional using both entry methods.

