CE07 Instructions.

Instructions:

Data and layout file structure

Inside each of the data files is 102 lines of information. The first and last lines are just a header and footer that don’t contain a relevant record. Each of the other 100 lines contains one record each. These records each have 150 fields separated by | . The final field is just a field indicating the end of a record.

The data layout file has one field name per line corresponding to each of the 150 fields that each record in the data files have. These field names and the fields in the data files are all in the same order.

For this assignment you can have all of your code in the Program class if you choose to. You will need to give the user the choice of reading in all of DataFile1, 2, or 3. The data in the chosen file should be read in and converted to the JSON format. It’s important to note that the data files only have the values of each field, the DataFieldsLayout file contains the name of each field. The JSON formatted data then needs to be written out to a valid JSON file.  The code that converts the data to the JSON format must be written by you. Do not use a serializer or 3rd party framework like Newtonsoft.Json.

Make sure your project meets the following requirements:

**File I/O Reading**

* The field names are read in from the DataFieldsLayout file and stored in a variable.
* The data fields are able to be read in from at least one of the DataFile files and stored in a variable.

**File I/O Writing**

* All relevant data from a DataFile is written out to a single file.

**JSON**

* Records are converted to valid JSON and written to a valid JSON file.  (ex. The file  
  extension should be .json and not .txt).

**User Input**

* The user is able to select which of the three data files they would like to process.