

Microgroove

Code Challenge v1.1

Description

Convert a variable width, flat CSV file to a hierarchical JSON file.

- CSV file has one File record, designated "F" and one End record, designated "E"
- Each F record can contain multiple Order records, designated "O".
- Each O record contains a single B & T records
- Each O record can contain multiple Line Item records, designated "L"

Given Input

```
"F","08/04/2018"," By Batch #"  
"O","08/04/2018","ONF002793300","080427bd1"  
"B","Brett Nagy","5825 221st Place S.E.,"98027"  
"L","602527788265","02"  
"L","602517642850","01"  
"T","3","3","0","2","0"  
"E","1","2","9"
```

The input file contains variable width rows, separated by a comma and terminated by a new line.

The first character of each line is the Record Type.

The implementor can decide on field names for the JSON output and whether or not the Record Type characters are present in the JSON.

Example Output

```
{
  "date":"08/04/2018",
  "type":"By Batch #",
  "orders":[
    {
      "date":"08/04/2018",
      "code":"ONF002793300",
      "number":"080427bd1",
      "buyer":{
        "name":"Brett Nagy",
        "street":"5825 221st Place S.E.",
        "zip":"98027"
      },
      "items":[
        {
          "sku":"602527788265",
          "qty":2
        },
        {
          "sku":"602517642850",
          "qty":1
        }
      ],
      "timings":{
        "start":3,
        "stop":3,
        "gap":0,
        "offset":2,
        "pause":0
      }
    }
  ],
  "ender":{
    "process":1,
    "paid":2,
    "created":9
  }
}
```