## Name for the Problem:

Rendering the Org chart

## Description of the Problem:

Read in list of individuals and their managers (an org chart) from a CSV, and output a file containing the hierarchy in JSON format. Sound easy? Well it’s not hard but here’s an extra little kicker: Your algorithm must be better than O(n^2). Meaning no nested loops.

To make things a bit more fun, fire up the node.js app in the folder and go to <http://localhost:3000> to see it rendered with d3!

Files can be downloaded from https://github.com/chmod740/orgchartd3

## Input

A CSV file containing a person’s name together with their manager’s name.

## Output

A JSON file containing the node names with child nodes as a tree structure.

## Example

Input:

“John”, “Sally”

“Anna”, “Sally”

“Sally”, “”

Output:

{

“name”: “Sally”,

“children”: [

{

“name”: ”John”,

“children”: []

},

{

“name”: ”Anna”,

“children”: []

},

]

}

## Set of inputs with corresponding outputs to test participant’s code:

|  |  |
| --- | --- |
| INPUT | OUTPUT |
|  |  |
|  |  |
|  |  |