AVAMAE Coding Exercise

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The Problem

The deadline to deliver a prototype of your MedicineChest lift is fast approaching, and the entirety of your coding team has mysteriously fallen ill. Looks like you'll have to dust off your keyboard and do it yourself! Luckily you've found their notes for the project, left right outside your office (as if they planned this all along…)

- For the prototype, a simple console application should be written in C#

- This should take a CSV file of lift calls as an input and output a CSV showing how the lift responds

- The input CSV has four columns:
    - The ID of the person calling the lift
    - Which floor they're calling from
    - Which floor they want to go to
    - The time at which they call the lift

- The format of the output CSV is flexible, but it should contain a row each time the lift comes to a floor with the information:
    - The current time
    - Which people are in the lift
    - Which floor the lift is in
    - Which floors are in the lift's call queue, and in what order

- The program should output how long your lift took to respond to all the calls

- For the purposes of the prototype, assume the lift takes 10 seconds to move from one floor to the next

The MedicineChest are a skeptical bunch, and want to see your source code as well as the program itself and any documentation you can produce.