

## Liquid Labs - Web developer

Imagine you are a company that wants to assist some US-based companies to ship their goods to customers in Hamburg. To achieve this, let's assume that every order can be represented by a tuple (*orderId*, *companyName*, *customerAddress*, *orderedItem*).

Thus, some sample data might look like this:

```
001, SuperTrader, Steindamm 80, Macbook
002, Cheapskates, Reeperbahn 153, Macbook
003, MegaCorp, Steindamm 80, Book "Guide to Hamburg"
004, SuperTrader, Sternstrasse 125, Book "Cooking 101"
005, SuperTrader, Ottenser Hauptstrasse 24, Inline Skates
006, MegaCorp, Reeperbahn 153, Playstation
007, Cheapskates, Lagerstrasse 11, Flux compensator
008, SuperTrader, Reeperbahn 153, Inline Skates
```

Using node.js, please implement a working solution to perform the following kind of operations on the data:

- 1) show all orders from a particular company
- 2) show all orders to a particular address
- 3) delete a particular order given an OrderId
- 4) display how often each item has been ordered, in descending order (ie in the above example, 2x for Macbook and Inline skates, 1x for the rest)

Please optimize your code and do not convolute it with handling exceptions/edge cases – we are more interested in readability for this solution.

Finally, could you answer these questions:

- a) Why did you pick your particular design? What assumptions did you make, and what tradeoffs did you consider?
- b) What do you like (and dislike) about Node/Javascript compared to other programming languages?

Please send us your solution together with build instructions.

If you have any further questions please let us know. Otherwise, we look forward to seeing your solution!