Cheapest Item: Solution Review

Solution review.

Sorting

Getting the *cheapest* item implies you're sorting by price. After that grab the item's name.

A vanilla solution might look like this

A \$10 carrot is the cheapest item. What kind of grocery store is this?!

Anyways, we see the order of operations

- 1. Sort by price
- 2. Grab the first or last item (depending on how you sorted)
- 3. Return its name

We know pipe and prop from the last exercise and those seem like good candidates here. Ramda also carries a sort function.

```
index.js

import { pipe, prop, sort } from 'ramda';
import cart from './cart';

cart.js

const getCheapestItem = pipe(
    sort((a, b) => a.price - b.price),
    (list) => list[0],
    prop('name')
);

const result = getCheapestItem(cart);

console.log({ result });

import { pipe, prop, sort } from 'ramda';
import cart from './cart';

const getCheapestItem = pipe(
    sort((a, b) => a.price - b.price),
    (list) => list[0],
    prop('name')
);

Console.log({ result });
```

This works, but a bit awkwardly. I'm not fond of how we're returning the *head* element

```
(list) => list[0]
```

Let's replace that with Ramda's head function. It returns a list's head element.

https://ramdajs.com/docs/#head

```
import { head, pipe, prop, sort } from 'ramda';
import cart from './cart';

const getCheapestItem = pipe(
    sort((a, b) => a.price - b.price),
    head,
    prop('name')
);

const result = getCheapestItem(cart);

console.log({ result });
```

Much better. Pat yourself on the back if you got this.

But did you know about sortBy?

```
index.js

import { head, pipe, prop, sortBy } from 'ramda';
import cart from './cart';
```

```
cart.js

const getCheapestItem = pipe(
    sortBy(prop('price')),
    head,
    prop('name')
);

const result = getCheapestItem(cart);

console.log({ result });
```

It takes a function that describes how the data should be sorted. Useful if your sorts involve any complex logic.

https://ramdajs.com/docs/#sortBy