## Bang for Your Buck: Solution Review

Solution review.

## Review

Let's review the steps

- 1. Get everything maxPrice or less
- 2. Sort by rating
- 3. Get the top 3

Here's a vanilla solution

```
index.js

import menu from './menu';

const getTop3MealsFor = (maxPrice, menu) => menu
    .filter((item) => item.price <= maxPrice)
    .sort((a, b) => b.rating - a.rating)
    .slice(0, 3);

const result = getTop3MealsFor(12, menu);

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

Ramda has slice and sort functions. Using them lets us pipe the entire function to make it point-free.

```
index.js

menu.js

import { pipe, slice, sort } from 'ramda';
import menu from './menu';

const getTop3MealsFor = pipe(
   (maxPrice, menu) => menu.filter((item) => item.price <= maxPrice).</pre>
```

```
sort((a, b) => b.rating - a.rating),
slice(0, 3)
);

const result = getTop3MealsFor(12, menu);

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

We can point-free up filter 's predicate function using propSatisfies . It tests an object's property against a function to return true or false.



I personally wouldn't do that, but it's fun to experiment.

## **Comparators**

I *would*, however, play around with comparators. These are functions that compare data for sorting.

Ramda's descend function is a descending comparator, meaning a function that sorts entries from biggest to smallest. The flip side would be R.ascend, an ascending comparator.

We can break the sorting logic into a function

```
const byPrice = descend(prop('rating'));
```

Then use it like so

```
sort(byPrice);
```

It reads like a sentence!

```
index.js
                                                                                      menu.js
import { descend, gte, pipe, prop, propSatisfies, slice, sort } from 'ramda';
import menu from './menu';
const byPrice = descend(prop('rating'));
const getTop3MealsFor = pipe(
 (maxPrice, menu) => menu.filter(propSatisfies(gte(maxPrice), 'price')),
 sort(byPrice),
 slice(0, 3)
);
const result = getTop3MealsFor(12, menu);
console.log({ result });
                                                                                       []
```