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## 07.01 Lab Exercises

array.map()

array.filter()

1. Given an array of vegetables, use **map()** to make new array of fresh veggies: ['fresh beet', 'fresh carrot', etc]

```
const veggies = ['beet', 'carrot', 'celery', 'cucumber', 'broccoli',
'cauliflower', 'lettuce'];

// YOUR CODE

// console.log(freshVeggies); // ['fresh beet', 'fresh carrot', 'fresh celery', 'fresh cucumber', 'fresh broccoli', 'fresh cauliflower', 'fresh lettuce'];
```

2. Use filter(), make a new array containing only the veggies that start with the letter 'c':

```
// YOUR CODE

// console.log('C_veggies', C_veggies);

// ['carrot', 'celery', 'cucumber', 'cauliflower']
```

3. Using filter-into-map chaining, get just the veggies that start with 'c', but with the word 'crunchy' before each veggie:

```
// YOUR CODE

// ['crunchy carrot', 'crunchy celery', 'crunchy cucumber', 'crunchy cauliflower']
```

## pluralize words

Using **map**, pluralize each fruit in the provided fruits array:

```
const fruits = ["apple", "banana", "blueberry", "cherry", "grape",
"kiwi", "lemon", "mango", "orange", "papaya", "peach", "strawberry"]
```

Pluralization rules are as follows:

- if word ends in "y", drop the "y" and add "ies" ("cherry" -> "cherries")
- if word ends in "h" or "o", add "es" ("peach" --> "peaches", "mango" --> "mangoes")

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otherwise, add "s" ("apple" --> "apples")

```
// YOUR CODE
// console.log(fruitPl);
```

4. Given two arrays, **furniture** and **woods**, use map to generate a new **woodFurniture** array, having all ten pieces of furniture, each with a random wood types:

```
const furniture = ["Desk", "Chair", "Bed", "Table", "Sofa", "Card
Table", "Tea Table", "Chest", "Dresser", "Sideboard"];

const woods = ["Oak", "Walnut", "Mahogany", "Maple"];
```

5. Use map; inside the function, generate a random number in the range of the woodTypes array and use that value to select a random wood type:

```
// YOUR CODE
console.log(woodFurn);
```

## assigning apartment numbers using map to make a 2D array from a 1D array

An apartment building has four apartments on each of six floors. The units are provided:

```
const letters = ['A', 'B', 'C', 'D'];
```

Using map, generate all 24 apartment units and save them to a nested array, consisting of 6 items, each an array of 4 items.

Desired output: // [ ['1A', '1B', '1C', '1D'], ['2A', '2B', '2C', '2D'], ['3A', '3B', '3C', '3D'], ['4A', '4B', '4C', '4D'] ]

6. Call the map method on the array, saving whatever is returned in the end to a new array, aptNums:

```
// YOUR CODE
```

7. each iteration of map requires a loop to make the four-item array, which is all the apts for one floor.

```
// YOUR CODE

console.log(apts); // [ ['1A', '1B', '1C', '1D'], ['2A', '2B', '2C', '2D'], ['3A', '3B', '3C', '3D'], ['4A', '4B', '4C', '4D'] ]
```

07.01-Lab-README.md 10/27/2022