1 for Loop vs forEach()

1.1 for Loop

In programming, it is common to use "i" as an iterator. With nested loops, it is common to use "i", "j", "k", "l", "m", etc...

If you're coming from a Python background, you will know that Python has syntactical sugar to make loops more symantic (eg for fruit in fruits:). JavaScript doesn't.

Setting up a for loop in JavaScript:

```
for (let i = o; i < fruits.length; i++) {
  console.log(fruits[i]);
}</pre>
```

1.2 forEach()

Arrays are often named using plural nouns, like "fruits" because they are a collection of those things. This keeps our code more *symantic* and easier to understand. It makes sense then, when iterating through an array, to use arguments that represent a singular thing in a given array. Thus, adding symantic meaning to our forEach() loop.

```
fruits.forEach(fruit => {
   console.log(fruit)
});
```

JavaScript allows us to write single-line functions all on one line and ommit the curlies. Allowing us to write the above more concisely:

```
fruits.forEach(fruit => console.log(fruit));
```

Question:

What is the "=>"?

```
() => {};

\\ vs
function() {};
```

Is there a difference?

1.2.1 The forEach() Method

Pros:

- Easier to read and understand
- Bugs easier to avoid
 - Infinite loops impossible
 - Avoids incrementing mistakes

- Wrong condition

Cons:

- Can't break out early
 - Rare that you'd need to, but use for or while if you do