

# forEach And map

INTERVIEW DATES  
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# forEach:

- The `forEach` method is a built-in function available for arrays in JavaScript.
- It is used to iterate over each element in an array
- Unlike `map`, it doesn't create a new array or modify the original array. It's mainly used for performing actions or operations on each element without returning a result.

# Example:

**Suppose you have an array of temperatures in Celsius, and you want to convert them to Fahrenheit and log the results without creating a new array:**

```
const celsiusTemperatures = [0, 25, 100, -10, 15];

celsiusTemperatures.forEach(celsius => {
  const fahrenheit = (celsius * 9/5) + 32;
  console.log(`${celsius}°C is equal to ${fahrenheit}°F`);
});
```

# MAP

- The map method is also available for arrays in JavaScript.
- It iterates over each element in an array, applies a provided callback function to each element, and returns a new array containing the results of those function calls.
- It's used for **creating a new array based on the transformations of the original array.**

# EXAMPLE

**Suppose you have an array of numbers and you want to square each number, creating a new array with the squared values:**

```
const numbers = [1, 2, 3, 4, 5];  
  
const squaredNumbers = numbers.map(num => num * num);  
  
console.log(squaredNumbers);
```

# DIFFERENCE

## Return Value:

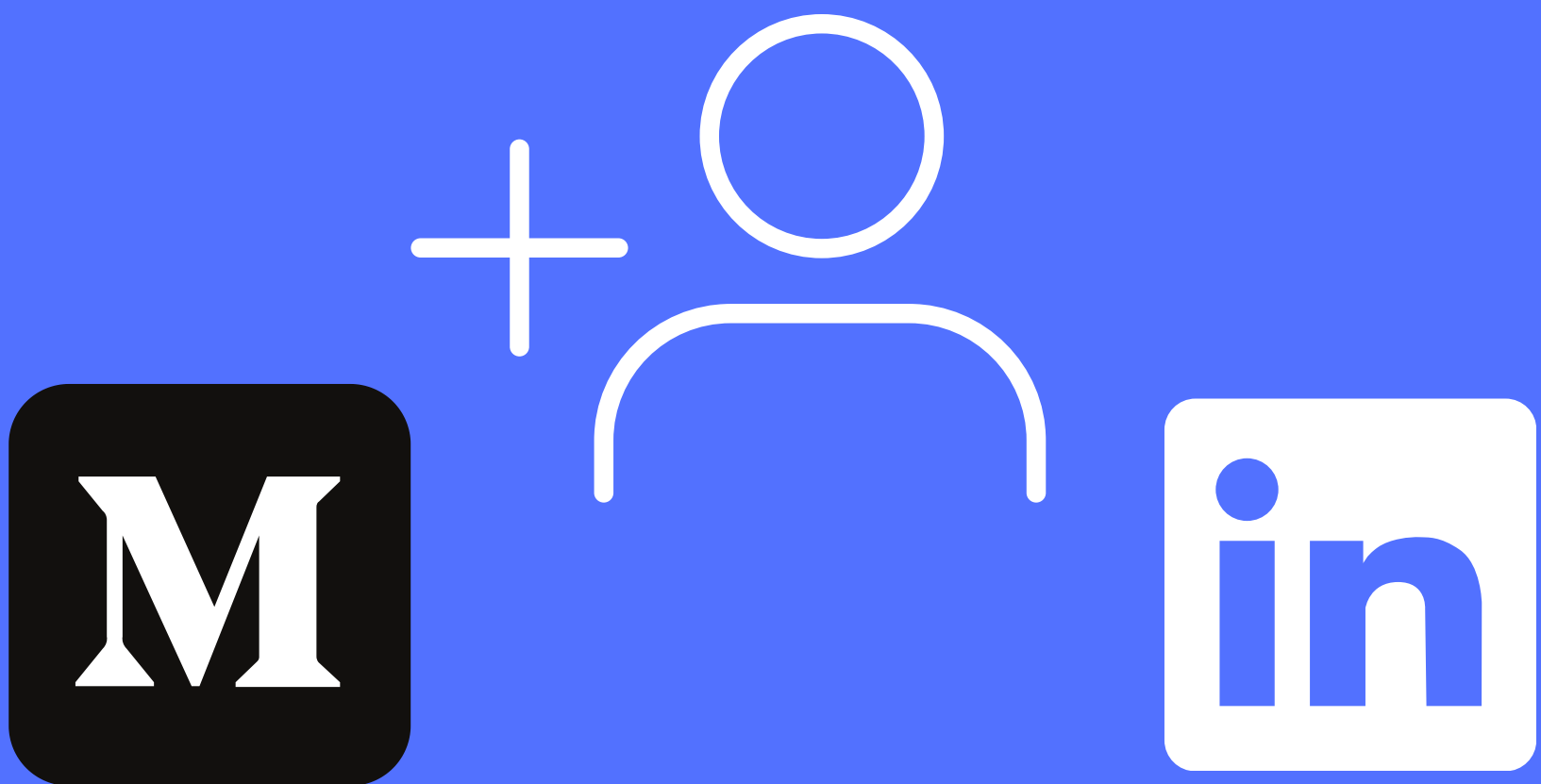
- **forEach doesn't return anything**; it's used for performing actions on each element without creating a new array.
- **map returns a new array** with the results of applying the callback function to each element.

## Use Case:

- Use **forEach** when you need to iterate through an array and perform actions or operations on its elements without changing the array's structure.
- Use **map** when you want to create a new array based on the transformations of the original array.

**Original Array:**

**forEach** doesn't modify the original array.  
**map** leaves the original array unchanged and  
creates a new one.



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