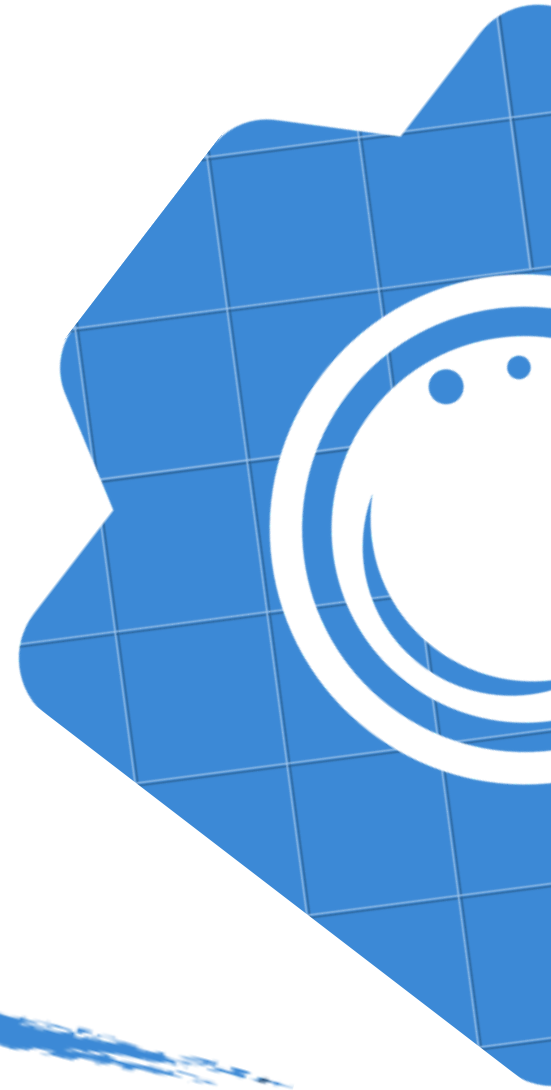


Array methods



INTERVIEW QUESTIONS-52



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Array methods questions

- what are all the array methods you used in your project?
- explain map,filter and reduce methods?
- explain how reduce works with an example?
- what difference with shift and unshift?
- how splice method is useful?
- when do you use pop and push?

Array methods

- map
- filter
- reduce
- shift
- unshift
- splice
- pop
- push
- concat

map

map() creates a new array by applying a function to each element in an array.

```
const numbers = [1, 2, 3];  
const squaredNumbers = numbers.map((number) => number * number);  
// squaredNumbers: [1, 4, 9]
```

filter

filter() creates a new array with elements that pass a given condition.

```
const numbers = [1, 2, 3, 4, 5];  
const evenNumbers = numbers.filter((number) => number % 2 === 0);  
// evenNumbers: [2, 4]
```

reduce

reduce the elements of an array into a single value by applying a function to each element.

```
const numbers = [1, 2, 3, 4, 5];  
const sum = numbers.reduce((accumulator, currentValue) => accumulator +  
    currentValue, 0);  
console.log(sum); // Output: 15 (the sum of all elements in the array)
```

Will be explain in step by step as some guys will
always it's weird to understand

Steps

- `numbers.reduce((accumulator, 1) => 0 + 1, 0);`
- `numbers.reduce((1, 2) => 1 + 2);`
- `numbers.reduce((3, 3) => 3 + 3,);`
- `numbers.reduce((6, 4) => 6 + 4,);`
- `numbers.reduce((10, 5) => 10 + 5,); //15`

unshift() and shift()

- **unshift()** adds one or more elements to the beginning of an array.
- **shift()** removes and returns the first element from an array.

```
const colors = ["red", "green"];
colors.unshift("blue"); // colors: ["blue", "red", "green"]
const removedColor = colors.shift();
// removedColor: "blue", colors: ["red", "green"]
```

push() and pop()

- push() adds one or more elements to the end of an array.
- pop() removes and returns the last element from an array.

```
const fruits = ["apple", "banana"];
fruits.push("cherry"); // fruits: ["apple", "banana", "cherry"]
const removedFruit = fruits.pop(); // removedFruit: "cherry", fruits: ["apple",
    "banana"]
```


Concat

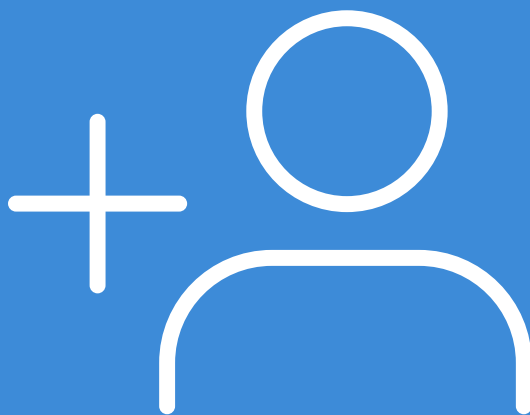
`concat()` combines two or more arrays and returns a new array.

```
const array1 = [1, 2];  
const array2 = [3, 4];  
const combinedArray = array1.concat(array2);
```

Slice

`slice()` extracts a portion of an array into a new array.

```
const numbers = [1, 2, 3, 4, 5];  
const subset = numbers.slice(1, 4); // subset: [2, 3, 4]
```



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