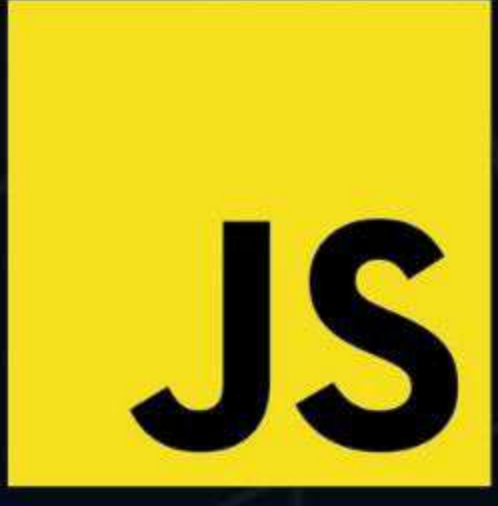
Coding Questions Based on Array



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Reverse an Array

```
const array = [1, 2, 3, 4, 5];
const reversedArray = array.reverse();
console.log(reversedArray); // Output: [5, 4, 3, 2, 1]
```

Sum of All Elements

```
const array = [1, 2, 3, 4, 5];
const sum = array.reduce((acc, curr) => acc + curr, 0);
console.log(sum); // Output: 15
```

Find the Largest Number

```
const array = [1, 2, 3, 4, 5];
const largest = Math.max(...array);
console.log(largest); // Output: 5
```

Find the Second Largest Number

```
const array = [1, 2, 3, 4, 5];
const largest = Math.max(...array);
const secondLargest = Math.max(...array.filter(num => num !== largest));
console.log(secondLargest); // Output: 4
```

Remove Duplicates

```
const array = [1, 2, 2, 3, 4, 4, 5];
const uniqueArray = [...new Set(array)];
console.log(uniqueArray); // Output: [1, 2, 3, 4, 5]
```

Remove Falsy Values

```
const array = [0, 1, false, 2, '', 3, null, 'a', undefined, 'b',
NaN, 'c'];
const truthyArray = array.filter(Boolean);
console.log(truthyArray); // Output: [1, 2, 3, 'a', 'b', 'c']
```

Remove a Specific Element

```
const array = [1, 2, 3, 4, 5];
const elementToRemove = 3;
const filteredArray = array.filter(el => el !== elementToRemove);
console.log(filteredArray); // Output: [1, 2, 4, 5]
```

Find the Index of an Element

```
const array = [1, 2, 3, 4, 5];
const index = array.indexOf(3);
console.log(index); // Output: 2
```

Check if Array is Sorted

```
const array = [1, 2, 3, 4, 5];
const isSorted = array.every((val, i, arr) => !i || arr[i - 1] <=
val);
console.log(isSorted); // Output: true
```


Merge Two Arrays

```
const array1 = [1, 2, 3];
const array2 = [4, 5, 6];
const mergedArray = [...array1, ...array2];
console.log(mergedArray); // Output: [1, 2, 3, 4, 5, 6]
```

Count Occurrence of Elements

```
const array = ['a', 'b', 'a', 'c', 'b', 'a'];
const counts = array.reduce((acc, curr) => {
  acc[curr] = (acc[curr] || 0) + 1;
  return acc;
}, {});

console.log(counts); // Output: { a: 3, b: 2, c: 1 }
```

Sort an Array of Objects

```
const array = [
  { name: 'John', age: 25 },
  { name: 'Jane', age: 22 },
  { name: 'Jack', age: 27 }
];
array.sort((a, b) => a.age - b.age);
console.log(array);
// Output: [
//   { name: 'Jane', age: 22 },
//   { name: 'John', age: 25 },
//   { name: 'Jack', age: 27 }
// ]
```