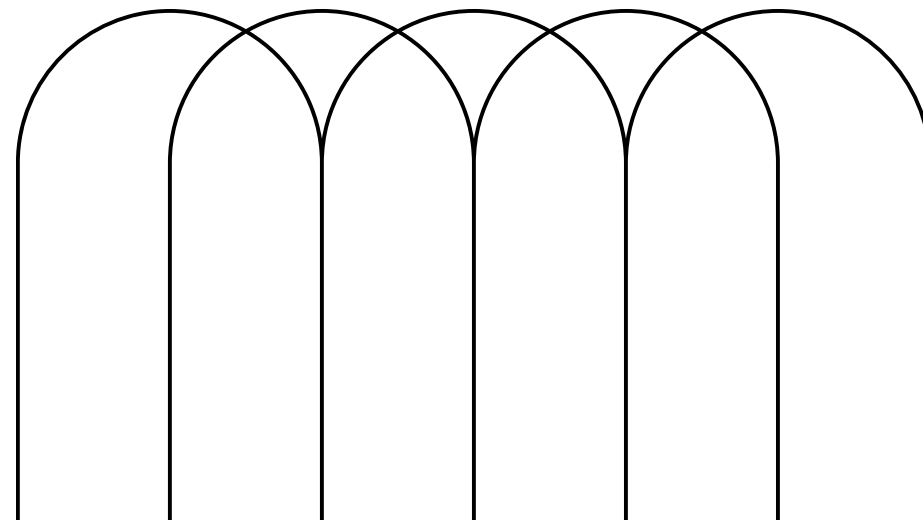
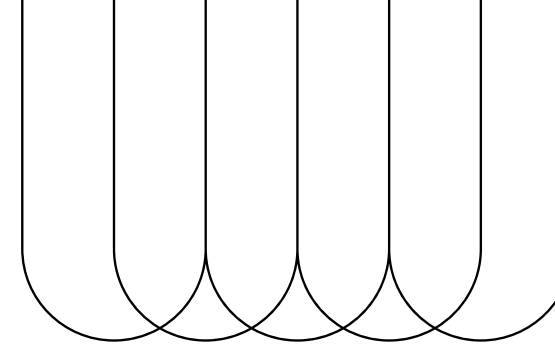


Javascript Array





Javascript Array

An array is a special type of object used for storing ordered collections of values. These values can be of any type—numbers, strings, objects, other arrays, etc.

Creating Strings

```
let colors = ["red", "green", "blue"];
let employees = [ {name: Ram}, {name: shyam}, {name: Sohan} ]
```

length Property

Returns the length of the string.

```
let colors = ["red", "green", "blue"];
colors.length; // 3
```



Javascript Strings

Common Strings functions

- **push() & pop():** Adds/Removes element to/from the end.

```
fruits.push("Dragonfruit"); fruits.pop();
```

- **unshift() & shift():** Adds/Removes element to/from the end.

```
fruits.unshift("Avocado"); fruits.shift();
```

- **splice() :** Modifies an array by adding, removing, or replacing elements

```
fruits.splice(1, 1, "Kiwi");
```

- **slice(start, end) :** Extract a portion of an array from start index to but **not included** end index.

```
let citrus = fruits.slice(1, 3);
```

Javascript Strings

Common Strings functions

- **concat()**: Combines two arrays into a new one.

```
let veggies = ["Carrot", "Spinach"];
let food = fruits.concat(veggies);
```

- **indexOf()**: Returns the index of specified value, or -1 if not found.

```
let index = fruits.indexOf("Cherry");
```

- **includes()** : Check if an element exists

```
fruits.includes("Banana");
```

- **forEach()** : Loops through elements

```
fruits.forEach(function(item) { console.log(item); });
```

Javascript Strings

Common Strings functions

- **map()**: Returns a new array with transformed elements.

```
let upperFruits = fruits.map(item => item.toUpperCase());
```

- **filter()**: Filter elements based on condition

```
let longNames = fruits.filter(item => item.length > 5);
```

- **reduce()** : Accumulate a single value

```
let totalLength = fruits.reduce((sum, item) => sum + item.length, 0);
```

- **sort() & Reverse()**: For sorting & reversing the array

```
fruits.sort(); fruits.reverse();
```

THANK YOU

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