

JS ARRAY METHODS

① `.toString()` \Rightarrow Converts an array to a string.

Example :-


```
const arr = [1, 2, 3, 4];  
let str = arr.toString();
```

```
console.log(str);  
// Output 1, 2, 3, 4
```

② `.concat()` \Rightarrow Joins 2 or more arrays.

Example :-

```
const arr1 = [1, 2, 3];  
const arr2 = [4, 5];  
const arr3 = [6];  
const con = arr1.concat(arr2, arr3);
```

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```
console.log(con);  
// Output [1, 2, 3, 4, 5, 6]
```

③ .indexOf()

⇒ Returns the 1st index at which a given element can be found.

Example :-

```
const fruits = ['Apple', 'Grapes',  
                'Orange', 'Apple'];
```

```
console.log(fruits.indexOf('Apple'));  
//Output 0
```

```
// start from index 1  
console.log(fruits.indexOf('Apple', 1));  
//Output 3
```

```
console.log(fruits.indexOf('Mango'));  
//Output -1
```


④ .findIndex()

⇒ Returns the index of 1st element in the array that satisfies the provided testing function.

Example :-

```
const arr = [9, 15, 4, 34, 22];
```

```
const a = (element) ⇒ element > 12;
```

```
console.log(arr.findIndex(a));
```


// Output 1

⑤ .includes()

⇒ Determines whether an array includes a specific element.

Example :-

```
const arr = [1, 2, 3];
```

 @Piyushd_21 console.log(arr.includes(2));

// Output true

⑥ .forEach() \Rightarrow Calls a function for each array element.

Example :-

```
const arr = [1, 2, 3];
```

```
arr.forEach(element  $\Rightarrow$  console.log(element));
```

```
// Output 1  
          2  
          3
```

⑦ .join()

\Rightarrow Joins all the elements of the array into a string, separated by commas ~~or~~ specific separator.

Example :-

```
const arr = ['a', 'b', 'c'];
```

```
console.log(arr.join());
```

```
// Output a,b,c
```

```
console.log(arr.join('-'));
```

```
// Output a-b-c
```

② .unshift()

⇒ It adds one or more elements to the beginning of an array and returns new length of the array.

Example :-

```
const arr = [1, 2, 3];
```

```
console.log(arr.unshift(4, 5));  
// Output 5
```

```
console.log(arr);  
// Output [4, 5, 1, 2, 3]
```


④ .filter()

⇒ Creates a new array with all elements that pass the test implemented by the provided function.

Example :-

```
const arr = [15, 5, 9, 22, 104];
```

```
const result = arr.filter(element =>  
    element < 12);
```

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```
console.log(result);  
// Output [5, 9]
```


⑩ .every()

⇒ Checks if every element in an array pass the test.

Example:-


```
const ages = [45, 34, 60, 23];  
console.log(ages.every(checkAge));  
function checkAge (age) {  
    return age > 18;  
}
```

// Output true

⑪ .pop()

⇒ Removes the last element from an array and returns that element.

Example:-

 @Piyushd_21 `const arr = [1, 2, 3, 4, 5];`

```
console.log(arr.pop());  
// Output 5
```

```
console.log(arr);  
// Output [1, 2, 3, 4]
```

⑫ .push()

⇒ Adds one or more elements to the end of an array & returns the new length of the array.

Example:-

```
const arr = [1, 2, 3];
```

```
console.log(arr.push(5));
```

```
// Output 4
```

```
console.log(arr);
```

```
// Output [1, 2, 3, 5]
```

⑬ .map()

⇒ Creates a new array from calling a function for every array element.

Example:-

```
const arr = [1, 2, 3];
```

```
console.log(arr.map(x => x * 2));
```

```
// Output [2, 4, 6]
```


⑭. reduce()

⇒ Executes a reducer function for array element and returns a single value.

Example :-

```
const num = [1, 2, 3];
```

```
const sum = num.reduce(function  
  (previousValue, currentValue) {  
    return previousValue + currentValue;  
  });
```

```
console.log(sum);  
// Output 6
```

⑮. reverse()

⇒ Reverses the array.

Example :-

```
const arr = [1, 2, 3];
```

```
const reversed = arr.reverse();
```

```
console.log(reversed);
```

```
// Output [3, 2, 1]
```

```
console.log(arr);
```

```
// Output [3, 2, 1]
```


①6 .shift()

⇒ Removes the first element of an array and returns that removed element.

Example:-

```
const arr = [1, 2, 3];
```

```
console.log(arr.shift());
```

// Output 1

①7 .slice()

⇒ Selects the part of an array and returns the new array.

Example:-

```
const arr = ['a', 'b', 'c', 'd', 'e'];
```

```
console.log(arr.slice());
```

// Output ['a', 'b', 'c', 'd', 'e']

```
console.log(arr.slice(2));
```

// Output ['c', 'd', 'e']

```
console.log(arr.slice(1, 3));
```

// Output ['b', 'c', 'd']

```
console.log(arr.slice(2, -1));
```

// Output ['c', 'd']

⑱ . sort()

⇒ Sorts the array in ascending order.

Example:-

```
const arr = [1, 5, 4, 2];
```

```
console.log(arr.sort());
```

```
// Output [1, 2, 4, 5]
```

⑲ . splice()

⇒ Add / removes elements from an array.

Example:-

```
const months = ['Jan', 'March', 'April', 'June'];
```

// inserts at index 1

```
console.log(months.splice(1, 0, 'Feb'));
```

```
# // Output ['Jan', 'Feb', 'March', 'April', 'June']
```

// replaces 1 element at index 4

```
console.log(months.splice(4, 1, 'May'));
```

```
// Output ['Jan', 'Feb', 'March', 'April', 'May']
```


②0 . some()

⇒ Checks if atleast one element pass the test.

Example :-

```
const arr = [1, 2, 3, 4, 5];
```

```
const even = (x) ⇒ x % 2 === 0;
```

```
console.log(arr.some(even));
```

```
// Output true
```

```
// As atleast one of them is even
```