

Todos Application | Part 5 | Cheat Sheet

1. Array Methods

Method	Functionality
includes, indexOf, lastIndexOf, find, findIndex()	Finding Elements
push, unshift, splice	Adding Elements
pop, shift, splice	Removing Elements
concat, slice	Combining & Slicing Arrays
join	Joining Array Elements
sort	Sorting Array Elements

1.1 splice()

The

`splice()` method changes the contents of an array.

Using

`splice()` method, we can

- Remove existing items
- Replace existing items
- Add new items

1.1.1 Removing existing items

Syntax:

`arr.splice(Start, Delete Count)`

- Start: Starting Index
- Delete Count: Number of items to be removed, starting from the given index

JAVASCRIPT

```
1 let myArray = [5, "six", 2, 8.2];
2 myArray.splice(2, 2);
3
4 console.log(myArray); // [5, "six"]
5
6 let deletedItems = myArray.splice(2, 2);
7
8 console.log(deletedItems); // [2, 8.2]
```

The

`splice()` method returns an array containing the deleted items.

1.1.2 Adding new items

Syntax:

`arr.splice(Start, Delete Count, Item1, Item2 ...)`

Here the

Item1, Item2 ... are the items to be added, starting from the given index.

JAVASCRIPT

```
1  Let myArray = [5, "six", 2, 8.2];
2  myArray.splice(2, 0, "one", false);
3
4  console.log(myArray); // [5, "six", "one", false, 2, 8.2]
```

1.1.3 Replacing existing items

Syntax:

`arr.splice(Start, Delete Count, Item1, Item2 ...)`

JAVASCRIPT

```
1  Let myArray = [5, "six", 2, 8.2];
2  myArray.splice(2, 1, true);
3
4  console.log(myArray); // [5, "six", true, 8.2]
```

1.2 findIndex()

The

`findIndex()` method returns the first item's index that satisfies the provided testing function. If no item is found, it returns `-1`.

Syntax:

`arr.findIndex(Testing Function)`

Here Testing Function is a function to execute on each value in the array.

JAVASCRIPT

```
1  Let myArray = [5, 12, 8, 130, 44];
2  Let itemIndex = myArray.findIndex(function(eachItem) {
3    console.log(eachItem);
4  });
```

In the above code snippet, the below function is a Testing Function.

```
function(eachItem) { console.log(eachItem); }
```

Try out the

`splice()` and `findIndex()` methods in the below Code Playground.

HTML

CSS

JAVASCRIPT

Inspect

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <link rel="stylesheet" href="https://stackpath
5     <script src="https://code.jquery.com/jquery-3.
6     <script src="https://cdn.jsdelivr.net/npm/popper
7     <script src="https://stackpath.bootstrapcdn.co
8   </head>
9   <body>
10     Your HTML code goes here. Write JavaScript code
11   </body>
12 </html>
```

1.3 includes()

The

`includes()` method returns `true` if the provided item exists in the array. If no item is found, it returns `false`.

Syntax:

```
arr.includes(item)
```

1.4 indexOf()

The

`indexOf()` method returns the first index at which a given item can be found in the array. If no item is found, it returns `-1`.

Syntax:

```
arr.indexOf(item)
```

1.5 lastIndexOf()

The

`lastIndexOf()` method returns the last index at which a given item can be found in the array. If no item is found, it returns `-1`.

Syntax:

```
arr.lastIndexOf(item)
```

1.6 find()

The

`find()` method returns the first item's value that satisfies the provided testing function. If no item is found, it returns `undefined`.

Syntax:

```
arr.find(Testing Function)
```

1.7 unshift()

The

`unshift()` method adds one or more items to the beginning of an array and returns the new array length.

Syntax:

```
arr.unshift(item1,item2, ..., itemN)
```

1.8 shift()

The

`shift()` method removes the first item from an array and returns that removed item.

Syntax:

```
arr.shift()
```

1.9 concat()

The

`concat()` method can be used to merge two or more arrays.

This method does not change the existing arrays but instead returns a new array.

Syntax:

JAVASCRIPT

```
1 let newArray = arr1.concat(arr2);
```

1.10 slice()

The

`slice()` method returns a portion between the specified start index and end index(end index not included) of an array into a new array.

Syntax:

```
arr.slice(startIndex, endIndex)
```

1.11 join()

The

`join()` method creates and returns a new string by concatenating all of the items in an array, separated by commas or a specified separator string.

If the array has only one item, then it will be returned without using the specified separator.

Syntax:

```
arr.join(separator)
```

Here

`separator` is a string used to separate each item of the array. If omitted, the array items are separated with a comma.

1.12 sort()

The

`sort()` method sorts the items of an array and returns the sorted array. The default sort order is ascending.

Syntax:

```
arr.sort()
```

Try out the above Array Methods in the below Code Playground.

HTML CSS JAVASCRIPT

Inspect

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <link rel="stylesheet" href="https://stackpath
5     <script src="https://code.jquery.com/jquery-3.
6     <script src="https://cdn.jsdelivr.net/npm/popper
7     <script src="https://stackpath.bootstrapcdn.co
8   </head>
9   <body>
```

```
10     Your HTML code goes here. Write JavaScript code here.
11     </body>
12 </html>
```

Try out removing a deleted Todo from local storage using the `splice()` and `findIndex()` methods in the below Code Playground.

HTML CSS JAVASCRIPT Inspect

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
5     <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
6     <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
7     <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
8     <script src="https://kit.fontawesome.com/ac419381c7.js"></script>
9   </head>
10  <body>
11    <div class="todos-bg-container">
12      <div class="container">
13        <div class="row">
14          <div class="col-12">
15            <h1 class="todos-heading">Todos</h1>
16            <h1 class="create-task-heading">Create Task</h1>
17            Create <span class="create-task-heading">Task</span>
```

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