

ARRAY

push()

The `push()` method adds new items **to the end** of an array.

The `push()` method changes the length of the array.

The `push()` method returns the new length.

```
var box = ["Apple", "Orange", "grapes"];
console.log(box);

box.push("Mango"); //push

console.log(box);
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Array.js"
[ 'Apple', 'Orange', 'grapes' ]
[ 'Apple', 'Orange', 'grapes', 'Mango' ]
```

```
var box = ["Apple", "Orange", "grapes"];
console.log(box);

box.push("Mango", "Pineapple"); //push

console.log(box);
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Array.js"
[ 'Apple', 'Orange', 'grapes' ]
[ 'Apple', 'Orange', 'grapes', 'Mango', 'Pineapple' ]
```

unshift()

The `unshift()` method adds new elements to **the beginning** of an array.

The `unshift()` method overwrites the original array.

```
var box = ["Apple", "Orange", "grapes"];
console.log(box);

box.unshift("Mango"); //unshift

console.log(box);
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Array.js"
[ 'Apple', 'Orange', 'grapes' ]
[ 'Mango', 'Apple', 'Orange', 'grapes' ]
```

```
var box = ["Apple", "Orange", "grapes"];
console.log(box);

box.unshift("Mango", "Pineapple"); //unshift

console.log(box);
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Array.js"
[ 'Apple', 'Orange', 'grapes' ]
[ 'Mango', 'Pineapple', 'Apple', 'Orange', 'grapes' ]
```

pop()

The `pop()` method removes (pops) **the last element** of an array.

The `pop()` method changes the original array.

The `pop()` method returns the removed element.

```
var box = ["Apple", "Orange", "grapes"];
console.log(box);

box.pop(); //pop

console.log(box);
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Array.js"
[ 'Apple', 'Orange', 'grapes' ]
[ 'Apple', 'Orange' ]
```

```
var box = ["Apple", "Orange", "grapes"];
console.log(box);

box.shift(); //pop

console.log(box);
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Array.js"
[ 'Apple', 'Orange', 'grapes' ]
[ 'Orange', 'grapes' ]
```

splice()

The `splice()` method adds and/or removes array elements.

The `splice()` method overwrites the original array.

```
var box = ["Apple", "Orange", "grapes", "Mango", "Strawberry"];  
console.log(box);  
  
box.splice(2, 2); //splice  
console.log(box);
```

1

`splice(2,2)` → at index 2 remove 2 elements

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Array.js"  
[ 'Apple', 'Orange', 'grapes', 'Mango', 'Strawberry' ]  
[ 'Apple', 'Orange', 'Strawberry' ]
```

```
var box = ["Apple", "Orange", "grapes", "Mango", "Strawberry"];  
console.log(box);  
  
box.splice(2, 1, "Varshith", "Hardik"); //splice  
console.log(box);
```

2

`splice(2,1,"Varshith","Hardik")` → at index 2 remove 1 element add Varshith,Hardik

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Array.js"  
[ 'Apple', 'Orange', 'grapes', 'Mango', 'Strawberry' ]  
[ 'Apple', 'Orange', 'Varshith', 'Hardik', 'Mango', 'Strawberry' ]
```

```
var box = ["Apple", "Orange", "grapes", "Mango", "Strawberry"];  
console.log(box);  
  
box.splice(2, 0, "Varshith", "Hardik"); //splice  
console.log(box);
```

3

`splice(2,1,"Varshith","Hardik")` → at index 2 remove 0 element add Varshith,Hardik

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Array.js"
[ 'Apple', 'Orange', 'grapes', 'Mango', 'Strawberry' ]
[
  'Apple',
  'Orange',
  'Varshith',
  'Hardik',
  'grapes',
  'Mango',
  'Strawberry'
]
```

slice()

The `slice()` method returns selected elements in an array, as a new array.

The `slice()` method selects from a given *start*, up to a (not inclusive) given *end*.

The `slice()` method does not change the original array.

Syntax

```
array.slice(start, end)
```

```
var box = ["Apple", "Orange", "grapes", "Mango", "Strawberry"];
var sam = box.slice(1, 4);
console.log(sam);
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Array.js"
[ 'Orange', 'grapes', 'Mango' ]
```

```
//  
var box = ["Apple", "Orange", "grapes", "Mango", "Strawberry"];  
var sam = box.slice(-4, -1); // slice  
console.log(sam);
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Array.js"  
[ 'Orange', 'grapes', 'Mango' ]
```

What is the difference between `Array.slice()` and `Array.splice()` in JavaScript ?

slice()	splice()
This method is used to get a new array by selecting a sub-array of a given array.	This method is used to add/remove an item from the given array.