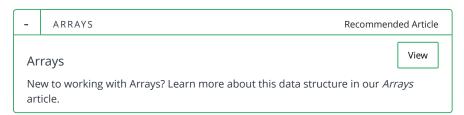


Arrays in JavaScript

Arrays

The JavaScript Array object is a global object that is used in the construction of arrays; which are high-level, list-like objects.



Click the Run button in the examples below to execute the sample code.

1. Create an Array



2. Access (Index Into) an Array Item

```
- EXAMPLE

let a = ['first', 'second'];
```

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Properties and Methods

```
Total Total

Total Total Total

Total Total Total

Total Total

Total Total

Total Total

Total Total

Total Total

Total Total

Total Total

Total Total
```

```
2
3 // first = 'first'
4 let first = a[0];
5
6 // last = 'second'
7 let last = a[a.length - 1];
8
9 console.log('a[0]:', first);
10 console.log('a[a.length - 1]:', last);

Output

Run
```

3. Loop Over an Array

4. Append to the End of an Array

```
- EXAMPLE

1 var a = ['first', 'second'];
2 
3 // Append 'third' to array 'a'
4 a.push('third');
5 
Console leg('a'' a):

Output

Run
```

5. Remove From the end of an Array

```
- EXAMPLE

var a = ['first', 'second', 'third'];
console.log('Original Array:', a);

// Remove the last element from the array
let removed = a.pop();
```

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```
Console.log('Modified Array:', a);
8 console.log('Removed Element:', removed);

Output

Run
```

6. Remove From the Front of an Array

```
- EXAMPLE

1 var a = ['first', 'second', 'third'];
2 console.log('Original Array:', a);
3
4 // Remove the first element from the array
5 let removed = a.shift();
6
7 console.log('Modified Array:', a);
Output

Run
```

7. Add to the Front of an Array

```
- EXAMPLE

1 var a = ['first', 'second', 'third'];
2 console.log('Original Array:', a);
3
4 // Insert element at the beginning of the array
a.unshift('fourth');
6
7
Output

Run
```

8. Find the Index of an Item in the Array

```
- EXAMPLE

var a = ['first', 'second', 'third', 'fourth'];

let position = a.indexOf('second');

console.log('a:', a);
```

```
Output

Run
```

9. Remove an Item by Index Position

```
- EXAMPLE

1 var a = ['first', 'second', 'third', 'fourth', 'fifth'];
2 console.log('Original Array:', a);
3
4 let position = 1;
5 let elementsToRemove = 2;
6 // Remove 'elementsToRemove' element(s) starting at 'position'
7 a.splice(position, elementsToRemove);
8
Output

Output

Run
```

10. Copy an Array

```
- EXAMPLE

1 var a = ['first', 'second', 'third', 'fourth'];
console.log('a:', a);
3
4 // Shallow copy array 'a' into a new object
let b = a.slice();
6
7
Output

Run
```

11. Sort an Array

```
- EXAMPLE

var a = ['c', 'a', 'd', 'b', 'aa'];
var b = [9, 2, 13, 7, 1, 12, 123];

// Sort in ascending lexicographical order using a built-in a.sort();
b.sort();
```

```
7
8 console.log('a:', a);
9 console.log('b:', b);
 Output
                                                                        Run
     EXAMPLE
1 var a = ['c', 'a', 'd', 'b', 'aa'];
2 \text{ var } \mathbf{b} = [9, 2, 13, 7, 1, 12, 123];
3
4 // Sort in descending lexicographical order using a compare function
5 a.sort(function(x, y) { return x < y; } );</pre>
6 b.sort(function(x, y) { return x < y; } );</pre>
8 console.log('a:', a);
O concolo log(lbel b)
 Output
                                                                        Run
     EXAMPLE
1 var a = ['c', 'a', 'd', 'b', 'aa'];
3 // Sort in descending lexicographical order using a compare arrow fu
4 \text{ a.sort}((x, y) \Rightarrow x < y);
6 0000010 100(1011 0)
 Output
                                                                        Run
```

12. Iterate Over an Array

We can use the *for...of* statement to iterate over an array. This type of statement creates a loop that lets you iterate over iterable objects such as *Array, String, Set*, and *Map*.

```
- EXAMPLE

1 var a = ['first', 'second', 'third', 'fourth'];
2 for (let e of a) {
      console.log('e:', e);
      Output

Run
```

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