

JavaScript Array Method Examples

Array.valueOf()

```
const arr1 = [1, 2, 3];

console.log('Example 1:', arr1.valueOf()); // [1, 2, 3]


const arr2 = ['a', 'b'];

console.log('Example 2:', arr2 === arr2.valueOf()); // true


function logValueOf(array) { console.log('Example 3:', array.valueOf()); }

logValueOf([10, 20]);


const arr4 = [99, 100];

const ref = arr4.valueOf(); ref[0] = 500;

console.log('Example 4 - modified ref:', ref); // [500, 100]

console.log('Original arr4 also modified:', arr4); // [500, 100]


const obj = { value: [7, 8, 9], valueOf: function () { return this.value; } };

console.log('Example 5:', obj.valueOf()); // [7, 8, 9]
```

Array.copyWithin()

```
const arr1 = [1, 2, 3, 4, 5];

arr1.copyWithin(3, 0, 2);

console.log('Example 1:', arr1); // [1, 2, 3, 1, 2]


const arr2 = ['a', 'b', 'c', 'd'];

arr2.copyWithin(0, 1);

console.log('Example 2:', arr2); // ['b', 'c', 'd', 'd']


const arr3 = [10, 20, 30, 40, 50];

arr3.copyWithin(2, 0, 2);

console.log('Example 3:', arr3); // [10, 20, 10, 20, 50]


const arr4 = [1, 2, 3, 4, 5];
```

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```
arr4.copyWithin(-2, 0, 2);
```

```
console.log('Example 4:', arr4); // [1, 2, 3, 1, 2]
```

```
const arr5 = [100, 200, 300, 400, 500];
```

```
arr5.copyWithin(1, 3);
```

```
console.log('Example 5:', arr5); // [100, 400, 500, 400, 500]
```