JavaScript Array Methods

ARRAY METHOD	DESCRIPTION	SYNTAX	USE CASE
length	Returns the number of elements.	array.length	[1,2,3].length // 3
toString()	Converts array to string.	<pre>array.toString()</pre>	[1,2,3].toString() // "1,2,3"
at()	Returns element at index.	<pre>array.at(index)</pre>	[10,20,30].at(-1) // 30
join()	Joins elements with a separator.	array.join(separator)	["a","b"].join("-") // "a-b"
pop()	Removes last element.	array.pop()	[1,2,3].pop() // 3
push()	Adds elements to the end.	<pre>array.push(item)</pre>	[1,2].push(3) // [1,2,3]
shift()	Removes first element.	array.shift()	[1,2,3].shift() // 1
unshift()	Adds elements to the start.	<pre>array.unshift(item)</pre>	[2,3].unshift(1) // [1,2,3]

ARRAY METHOD	DESCRIPTION	SYNTAX	USE CASE
delete	Deletes item at index (leaves empty).	<pre>delete array[index]</pre>	<pre>delete [1,2,3][1] // [1, empty, 3]</pre>
concat()	Merges arrays.	<pre>array1.concat(array2)</pre>	[1,2].concat([3,4]) // [1,2,3,4]
copyWithin()	Copies part of array internally.	array.copyWithin(target, start, end)	[1,2,3,4].copyWithin(1,2) // [1,3,4,4]
flat()	Flattens nested arrays.	array.flat(depth)	[1,[2,[3]]].flat(2) // [1,2,3]
slice()	Returns shallow copy of portion.	array.slice(start, end)	[1,2,3,4].slice(1,3) // [2,3]
splice()	Modifies array by removing/replacing.	<pre>array.splice(start, deleteCount,items)</pre>	[1,2,3].splice(1,1,4) // [1,4,3]
toSpliced()	Non-destructive version of splice.	<pre>array.toSpliced(start, deleteCount,items)</pre>	[1,2,3].toSpliced(1,1,4) // [1,4,3]