Array Methods Reference

The following table lists all the Array methods.

| Method | Description |
| --- | --- |
| concat() | Returns new array by combining values of an array that is specified as parameter with existing array values. |
| every() | Returns true or false if every element in the specified array satisfies a condition specified in the callback function. Returns false even if single element does not satisfy the condition. |
| filter() | Returns a new array with all the elements that satisfy a condition specified in the callback function. |
| forEach() | Executes a callback function for each elements of an array. |
| indexOf() | Returns the index of the first occurrence of the specified element in the array, or -1 if it is not found. |
| join() | Returns string of all the elements separated by the specified separator |
| lastIndexOf() | Returns the index of the last occurrence of the specified element in the array, or -1 if it is not found. |
| map() | Creates a new array with the results of calling a provided function on every element in this array. |
| pop() | Removes the last element from an array and returns that element. |
| push() | Adds one or more elements at the end of an array and returns the new length of the array. |
| reduce() | Pass two elements simultaneously in the callback function (till it reaches the last element) and returns a single value. |
| reduceRight() | Pass two elements simultaneously in the callback function from right-to-left (till it reaches the last element) and returns a single value. |
| reverse() | Reverses the elements of an array. Element at last index will be first and element at 0 index will be last. |
| shift() | Removes the first element from an array and returns that element. |
| slice() | Returns a new array with specified start to end elements. |
| some() | Returns true if at least one element in this array satisfies the condition in the callback function. |
| sort() | Sorts the elements of an array. |
| splice() | Adds and/or removes elements from an array. |
| toString() | Returns a string representing the array and its elements. |
| unshift() | Adds one or more elements to the front of an array and returns the new length of the array. |

<https://www.codingame.com/playgrounds/6181/javascript-arrays---tips-tricks-and-examples>

LIFO stands for Last-In-First-Out and represents a stack. Imagine a pile of plates. The last plate you added is the one on top of the pile and it's the only one you can take back. In a stack, there are 2 possible operation: **add** on top of the stack and **remove** the last element added from the stack

Functions that allow you to use the array as a stack:

* push(v) -- adds an element v at the end of the array (at index length) --returns the new length of the array
* pop() --removes the last element --returns the element that was deleted