```
var arr = [1,2,3,4,5,6,1,2,3,4,5,6];
var arr2 = ["Apple", "Banana", "m7shy", "Cake"];
// at() -> Return the element at the given index ([0] is the first element, [-1]
is the last element)
console.log(arr.at(-1))
// Concat() -> Join arrays together
console.log(arr.concat(arr2));
// copyWithin() -> Copies elements of array and paste in in a specific position
in the same array // (Target, Start, End)
console.log(arr2.copyWithin(3, 0, 2));
// every() -> Checks if the given condition is true for all elements of array,
if not return false
console.log(arr.every(function(e) {
   return e > 0;
})) // True
// fill() -> Fill the enire array with given static value
console.log(arr2.fill("Ma7shy"));
// filter() -> Creates a new array with only the elements passed the condition
given from an array.
console.log(arr.filter(function(e) {
    return e > 3;
}))
// find() -> iterates through the array untill it find the element meeting the
condition and stops then return this number. if not found return undefined
console.log(arr.find(function(e) {
    return e > 5
})) // 6
// findIndex() -> Return the index of the first element that passes a condition
console.log(arr.findIndex(function(e) {
    return e > 4;
})) // index 4
// findLast() -> Return the value of the last element of an array the passes a
condition
console.log(arr.findLast(function(e) {
    return e > 4;
})) // 6
// findLastIndex() -> Return the index of the last element of an array the
passes the condition
console.log(arr.findLastIndex(function(e) {
    return e > 4;
})) // 11
// flat() -> creates a new array with all sub-array elements concatenated
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var arr3 = [1,2,3,[4,5,[6,7]]];
console.log(arr3.flat()); // [1,2,3,4,5,[6,7]]
console.log(arr3.flat(2)); // [1,2,3,4,5,6,7]
// FlatMap() -> Maps all array elements and creates a new flat array after
applying the condition given
console.log(arr.flatMap(function(e) {
    return e + 2;
}))
// forEach() -> Apply a function for each element of the array but it doesn't
return a new array
console.log(arr.forEach(function(e) {
    console.log(e*2);
}))
// Array.from() -> Creates an Array from an object
var str = "Ma7shy";
console.log(Array.from(str));
// includes() -> Check if the element given is included in the Array
console.log(arr.includes(2)); // True
// indexOf() -> Return the index of the given element in the array
console.log(arr.index0f(2)) // 1
// Array.isArray() -> Check if the given element is array.
console.log(Array.isArray(str)); // False
console.log(Array.isArray(arr)); // True
// join() -> Join elements of array into a string
console.log(arr.join());
// lastIndexOf() -> Search for an element in the array from the end. returning
its index.
console.log(arr.lastIndexOf(6)); // 11
// length -> return the number of elements in the array
console.log(arr.length); 12
// map() -> maps over all elements of the array and returns the array with the
applied function given
console.log(arr.map(function(e) {
    return e * 4;
}))
// of() -> Creates an array from a number of elements (Arguments)
var arr4 = Array.of(1, 2, 3, 4);
console.log(arr4); // [1,2,3,4]
```

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// pop() -> Remove the last element of the array and return it
console.log(arr.pop())
// push() -> Add a new element to the array and return the new array length
console.log(arr.push(7));
// reduce() -> function that takes accumlator, current index, starting index for
current, and the array
console.log(arr.reduce(function(acc, current, index, arr) {
    return acc + current;
})) // 43
// reduceRight() -> Same as reduce but starting from Right to Left
console.log(arr.reduceRight(function(acc, current, index, arr) {
    return acc + current;
})) // 43
// reverse() -> reverse the order of the array
console.log(arr.reverse());
// shift() -> Remove and return the first element of an array
console.log(arr.shift());
// slice() -> Select a part of the array and return it (start,end)
console.log(arr.slice(0,3));
// some() -> Check if any of the elements of the array passes a condition gives
console.log(arr.some(function(e) {
    return e > 5;
}))
// sort() -> sort the elements of the array
console.log(arr.sort());
// splice() -> Removed a part of array and replace them with different numbers
if needed (Start, Number of elements to be deleted, element to replace, ...)
console.log(arr.splice(3, 2, 10, 11));
console.log(arr);
// toReversed() -> Reverse the order of the elements and create a new array with
them
console.log(arr.reverse());
// toSorted() -> Sort the elements of an array to a new array
console.log(arr.toSorted())
// toSpliced() -> Just like splice but creates a new array
console.log(arr.toSpliced(4, 3, 14, 15));
```

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// toString() -> Transform an array into string. and return it.
console.log(arr.toString());
// unshift() -> Add a new element to the beginning of an array and return the new array length
console.log(arr.unshift(10));
```