# JAVASCRIPT

# CHEAT-SHEET FOR ARRAY

- **Array** :

  We can acces element of array using it’s index value.

  Ex:

  let arr = [1, 2, 3, 4, 5];

  let ele = arr[3];

  output: 4

- **Change value of array** :-

  We can change value in array usnig it’s index value.

  Ex:

  let arr = [1, 2, 3, 4, 5];

  arr[2] = 20;

  output: arr[1,2,20,4,5]

## Array Methods & Properties

| Method | Description |
|---|---|
| pop() | Removes the last element of an array, and returns that element<br>const fruits = ["Banana", "Orange", "Apple", "Mango"];<br>fruits.pop();<br><br>output: fruits = ["Banana", "Orange", "Apple"] |
| push() | Adds new elements to the end of an array, and returns the new length<br>const fruits = ["Banana", "Orange", "Apple", "Mango"];<br>fruits.push("Rose");<br><br>output: fruits = ["Banana", "Orange", "Apple","Mango","Rose"] |
| reverse() | Reverses the order of the elements in an array<br>const fruits = ["Banana", "Orange", "Apple", "Mango"];<br>fruits.reverse();<br><br>output: Mango,Apple,Orange,Banana |

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|---|---|
| shift() | Removes the first element of an array, and returns that element<br>The `shift()` method changes the original array.<br><br>const fruits = ["Banana", "Orange", "Apple", "Mango"];<br>fruits.shift();<br><br>output: ["Orange", "Apple", "Mango"] |
| slice() | Selects a part of an array, and returns the new array<br>const fruits = ["Banana", "Orange", "Lemon", "Apple", "Mango"];<br>const citrus = fruits.slice(1, 3);<br><br>output: Orange Lemon |
| sort() | Sorts the elements of an array<br>const fruits = ["Banana", "Orange", "Apple", "Mango"];<br>fruits.sort();<br><br>output: Apple,Banana,Mango,Orange |
| splice() | Adds/Removes elements from an array<br>const fruits = ["Banana", "Orange", "Apple", "Mango"];<br>fruits.splice(2, 0, "Lemon", "Kiwi");<br><br>output: ["Banana", "Orange", "Lemon", "Kiwi","Apple", "Mango"] |
| toString() | Converts an array to a string, and returns the result<br>const fruits = ["Banana", "Orange", "Apple", "Mango"];<br>let text = fruits.toString();<br><br>output: Banana,Orange,Apple,Mango |
| unshift() | Adds new elements to the beginning of an array, and returns the new length<br><br>const fruits = ["Banana", "Orange", "Apple", "Mango"];<br>fruits.unshift("Lemon","Pineapple");<br><br>output: ["Lemon","Pineapple","Banana", "Orange", "Apple", "Mango"] |
| length | Returns the legth of an array<br><br>const fruits = ["Banana", "Orange", "Apple", "Mango"]<br><br>output: 4 |
| includes() | Check if an array contains the specified element<br><br>const fruits = ["Banana", "Orange", "Apple", "Mango"];<br>fruits.includes("Mango");<br><br>output: true |

| | |
|---|---|
| indexOf() | Search the array for an element and returns its position<br>The `indexOf()` method returns -1 if the value is not found.<br><br>The `indexOf()` method starts at a specified index and searches from left to right.<br><br>`const fruits = ["Banana", "Orange", "Apple", "Mango"];`<br>`let index = fruits.indexOf("Apple");`<br><br>output: 2 |