**FlatMap() method**

* flatMap() method maps all array elements and creates a new flat array.
* flatMap() creates a new array from calling a function for every array element.
* flatMap() does not execute the function for empty elements.
* flatMap() does not change the original array.

**syntax**

array.flatMap(function(currentValue, index, arr), thisValue)

**Parameters**

|  |  |
| --- | --- |
| **Parameter** | **Description** |
| **function()** | Required. A function to be run for each array element. |
| **currentValue** | Required. The value of the current element. |
| **index** | Optional. The index of the current element. |
| **arr** | Optional. The array of the current element. |
| **thisValue** | Optional. Default value undefined. A value passed to the function to be used as its this value. |

**Example 1**

<script>

const myArr = [1, 2, 3, 4, 5,6];

const newArr = myArr.flatMap((x) => x \* 2);

document.getElementById("demo").innerHTML = newArr;

</script>

**Output:** 2,4,6,8,10,12