

Filtering and Modifying Array Elements

in **JavaScript**

[1, 2, 3, 4, 5]



[3, 4, 5]

[6, 8, 10]



Using filter and map Methods Together

You can first use the filter method to remove unwanted elements from the array and then apply the map method to modify the remaining elements.



```
const array = [1, 2, 3, 4, 5];
const result = array
  .filter(num => num > 2) ←
  .map(num => num * 2); ←
console.log(result);
```

Step 1: Filter out
elements ≤ 2

Step 2: Double the
remaining elements

Output: [6, 8, 10]



Using reduce Method

The reduce method can be used to both filter and modify elements in a single pass by accumulating the results based on conditions.



```
const array = [1, 2, 3, 4, 5];
const result = array.reduce((acc, num) => {
  if (num > 2) { ←
    acc.push(num * 2); ← Filter condition
  }
  return acc;           Modify and
}, []);                accumulate

console.log(result);   Output: [6, 8, 10]
```





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