1. filter()

✓ What it does:

Returns a **new array** containing only the **items that match a condition**.

Syntax:

```
javascript
array.filter(item => condition);
Edit
```

Example:

```
const numbers = [1, 2, 3, 4, 5]; const even = numbers.filter(n => n % 2 === 0); console.log(even);
// [2, 4]
```

Use Case in React:

```
const tasks = [ { id: 1, text: "Buy milk", done: true }, { id: 2, text: "Clean room", done: false
} ]; function TaskList() { return (  {tasks .filter(task => !task.done) .map(task => ( key={task.id}>{task.text} ))}  ); }
```

2. reduce()

✓ What it does:

Takes an array and reduces it to a single value (like a total, sum, object, or even another array).

```
Syntax:
```

```
javascript
array.reduce((accumulator, current) => { return newAccumulator; }, initialValue);
```

***** Example (Sum):

```
javascript

const numbers = [10, 20, 30]; const total = numbers.reduce((sum, n) => sum + n, 0);
console.log(total); // 60
```

* Example (Count completed tasks):

```
const tasks = [ { id: 1, done: true }, { id: 2, done: false }, { id: 3, done: true } ]; const
completed = tasks.reduce((count, task) => task.done ? count + 1 : count, 0);
console.log(completed); // 2
```

Summary Table

Method	Purpose	Returns	Example Use
filter()	Filters items by condition	New array	Show only completed tasks
reduce()	Combines items into one value	Single value	Total price, count items, sum nums