DATA TRANSFORMATIONS WITH MAP, FILTER AND REDUCE

Original array

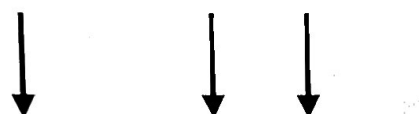| 3 | 1 | 4 | 3 | 2 |

MAP
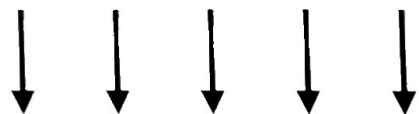
current * 2   Example

6   2   8   6   4

☞ map returns a **new array** containing the results of applying an operation on all original array elements
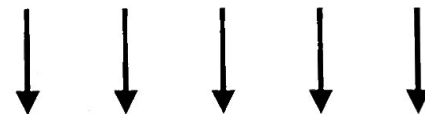
| 3 | 1 | 4 | 3 | 2 |

FILTER

current > 2

3   4   3

Filtered array

☞ filter returns a **new array** containing the array elements that passed a specified **test condition**

| 3 | 1 | 4 | 3 | 2 |

REDUCE

Accumulator   acc + current

13

Reduced value

☞ reduce boils ("reduces") all array elements down to one single value (e.g. adding all elements together)