**array ( map, filter, reduce )**

1. array\_map() is a function that allows you to apply a callback function to each element of an array and returns a new array with the results.
2. array\_filter() is a function that allows you to filter the elements of an array based on a condition defined by a callback function
3. array\_reduce() is a function that allows you to reduce an array to a single value based on a callback function.

Here's an example:

function square($n) {

return $n \* $n;

}

$numbers = array(1, 2, 3, 4, 5);

$squares = array\_map("square", $numbers);

print\_r($squares);

// Output: Array ( [0] => 1 [1] => 4 [2] => 9 [3] => 16 [4] => 25 )

function is\_even($n) {

return $n % 2 == 0;

}

Here's an example:

$numbers = array(1, 2, 3, 4, 5);

$evens = array\_filter($numbers, "is\_even");

print\_r($evens);

// Output: Array ( [1] => 2 [3] => 4 )

function sum($total, $n) {

return $total + $n;

}

$numbers = array(1, 2, 3, 4, 5);

$total = array\_reduce($numbers, "sum");

echo $total;

// Output: 15

pass by value and pass by reference

1. Without &: Pass by value (a copy is passed)
2. With &: Pass by reference (the actual variable is passed)

function increment($number) {

$number++;

}

$age = 20;

increment($age);

echo $age; // Still prints 20

function increment(&$number) {

$number++;

}

$age = 20;

increment($age);

echo $age; // Prints 21