PHP - Spread Operator

PHP recognizes the three dots symbol (...) as the **spread operator**. The spread operator is also sometimes called the **splat operator**. This operator was first introduced in PHP version 7.4. It can be effectively used in many cases such as unpacking arrays.

Example 1

In the example below, the elements in \$arr1 are inserted in \$arr2 after a list of its own elements.

It will produce the following output -

```
Array
(
[0] => 1
[1] => 2
[2] => 3
[3] => 4
[4] => 5
)
```

Example 2

The Spread operator can be used more than once in an expression. For example, in the following code, a third array is created by expanding the elements of two arrays.

```
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```

```
<?php

$arr1 = [1,2,3];

$arr2 = [4,5,6];

$arr3 = [...$arr1, ...$arr2];

print_r($arr3);

?>
```

It will produce the following output -

```
Array
(
[0] => 1
[1] => 2
[2] => 3
[3] => 4
[4] => 5
[5] => 6
)
```

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Example 3

Note that the same result can be obtained with the use of **array_merge()** function, as shown below —

It will produce the same output -

```
Array
(
[0] => 1
[1] => 2
[2] => 3
[3] => 4
[4] => 5
[5] => 6
)
```

However, the use of (...) operator is much more efficient as it avoids the overhead a function call.

Example 4

PHP 8.1.0 also introduced another feature that allows using named arguments after unpacking the arguments. Instead of providing a value to each of the arguments individually, the values from an array will be unpacked into the corresponding arguments, using ... (three dots) before the array.

```
</php
function myfunction($x, $y, $z=30) {
    echo "x = $x  y = $y  z = $z";
}

myfunction(...[10, 20], z:30);
?>
```

It will produce the following **output** –

```
x = 10 \ y = 20 \ z = 30
```

Example 5

In the following example, the return value of a function is an array. The array elements are then spread and unpacked.

```
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```

```
<?php

function get_squares() {

   for ($i = 0; $i < 5; $i++) {

       $arr[] = $i**2;

   }

   return $arr;

}

$squares = [...get_squares()];

print_r($squares);

?>
```

It will produce the following **output** –

```
Array
(
[0] => 0
[1] => 1
[2] => 4
[3] => 9
[4] => 16
)
```