

## QUIZ

When the code is run, what will be the largest numerical key in the array `$arr`?

```
$arr = ["hello", "there"];
$arr["young"] = "wizard";
$arr[] = ["you", "have"];
$arr[0] = "careful";
$arr[4] = "power";
$arr[3] = "terrifying";
$arr[] = "!";
```

4

6

9

5



That's right! The value `"!"` is located at index `5`.

What will print when we run the code?

```
$numbers = [
    "3" => 98,
    65 => 426,
    "000" => 0,
];

echo implode("", $numbers);
```

98 426 0

984260



Correct!

Which of the following is true?

In PHP, ordered arrays and associative arrays are different data types.

In PHP, ordered arrays don't have keys.

In PHP, arrays are always maps.



Right!

What will print when we run the following code?

```
$a1 = ["Alex" => "Sara", "Sara" => "Kat", "Kat" => "Toshi", "Dan" => "Dan"];  
$a2 = ["Dan", "Kat", "Sara", "Alex", "Toshi"];  
echo $a1[$a2[1]];
```

Sara

Dan

Kat

Toshi



Great job!

How many unique keys are in the array `$arr` once this code has been run?

```
$a1 = ["frog" => "toad", "oats" => "chaf", "bull" => "cow", "dog" => "bone", "north" => "south"];  
  
$a2=["bull" => "row", "dog" => "phone", "syrup" => "wig"];  
  
$a3 = $a1 + $a2;  
  
$arr = $a3 + ["north" => "mouth", "bread" => "head"];
```

Six

Five

Four

Eight

Seven



Right! The `$arr` array has the following seven keys: `"frog"`, `"oats"`, `"bull"`, `"dog"`, `"north"`, `"syrup"`, `"bread"`.

What will print when we run the following code?

```
$arr = ["breakfast" => "eggs", "lunch" => "eggs", "dinner" => "eggs", "dessert" => "cadbury cream eggs"];  
  
$arr["brunch"] = 0;  
  
unset($arr["lunch"]);  
  
unset($arr["brunch"]);  
  
array_push($arr, "I'm full");  
  
unset($arr["dinner"]);  
  
echo count($arr);
```

5

1

3



Right!

```
["hi" => "hello", "bye" => "see you soon?"]
```

Which of the following statements is true about this associative array?

The key "hello" points to the value "hi"

The key "hi" points to the value "hello"



Right!

The key "see you soon?" points to the value "bye"

What's the output of the following code?

```
function f1(&$array_param)
{
    $array_param["a"] = "changed";
}

function f2($array_param)
{
    $return_arr = f1($array_param);
    return $return_arr;
}

$arr1 = ["a" => "Tadpole"];
$arr2 = ["a" => "Lily"];

$run1 = f1($arr1);
$run2 = f2($arr2);

echo $arr1["a"] . " " . $arr2["a"];
```

changed changed

Tadpole Lily

changed Lily