Exercici 2 Estructures de control de PHP

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Arrays

Exercici 1

What is a correct syntax for creating arrays in PHP?

```
$fruits = ('Apple', 'Banana', 'Orange');
```

```
$fruits['Apple', 'Banana', 'Orange'];
```

```
*** $fruits = array('Apple', 'Banana', 'Orange');
```

Exercici 2

Use the correct function to output the number of items in an array.

```
$fruits = array("Apple", "Banana", "Orange");
echo count($fruits);
```

Exercici 3

True or False:
Array items must be of data type String.

True

*** False

Indexed Arrays

Exercici 1

In the following array:
`$fruits = array('Apple', 'Banana', 'Orange');`
What will be a correct syntax to change the second value from 'Banana' to 'Pineapple'?

`*** $fruits[1] = 'Pineapple';`

`$fruits['Banana'] = 'Pineappple';`

`$fruits.replace('Banana', 'Pineappple');`

Exercici 2

Output the second item in the `$fruits` array.

$fruits = array("Apple", "Banana", "Orange");
echo **$fruits[1]**;

Exercici 3

What will be the index of the new "Kiwi" item:

```
$fruits[0] = 'Apple';
$fruits[3] = 'Banana';
$fruits[6] = 'Orange';
array_push($fruits, 'Kiwi');
```

`1`

`*** 7`

`9`

Associative Arrays

Exercici 1

What is a correct syntax for creating an associative array in PHP?

```
*** $car = array('brand'=>'Ford', 'model'=>'Mustang');

$car = array('brand'='Ford', 'model'='Mustang');

$car = array('brand':'Ford', 'model':'Mustang');
```

Exercici 2

Create an associative array containing the age of Peter, Ben and Joe.

$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");

Exercici 3

Here you see an associative array. Output "age" of Ben.

```
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");
echo "Ben is " . $age[‘Ben’] . " years old.";
```

Exercici 4

Loop through an associative array and output the key and the value.

```
foreach($age as $x => $y) {
   echo "Key=" .  $x . ", Value=" . $y;
}
```

Create Arrays

Exercici 1

Which is NOT a correct syntax to create an array?

```
$cars = array('Volvo', 'BMW', 'Toyota');
```

```
$cars = ['Volvo', 'BMW', 'Toyota'];
```

```
*** $cars = ('Volvo', 'BMW', 'Toyota');
```

Exercici 2

Create an associative array containing the age of Peter, Ben and Joe.

$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");

Exercici 3

True or False:
A comma after the last array item is allowed.

***** True**

False

Access Arrays

Exercici 1

For the following array:
`$fruits = array('Apple', 'Banana', 'Orange');`
What will be a correct syntax to access the second item ('Banana')?

```
$x = $fruits['Banana'];
```

```
*** $x = $fruits[1];
```

```
$x = $fruits[2];
```

Exercici 2

For the following array:
`$cars = array('brand' => 'Ford', 'year' => 1964);`
What will be a correct syntax to return the 'year' value?

```
*** $x = $cars['year'];
```

```
$x = $cars[1];
```

```
$x = $cars[2];
```

Exercici 3

Loop through an associative array and output the key and the value.

```
foreach($age as $x => $y) {
   echo "Key=" .  $x . ", Value=" . $y;
}
```

Update Arrays

Exercici 1

What will the following array look like after the update:

```
$fruits = array('Apple', 'Banana', 'Orange');
$fruits[1] = 'Kiwi';
```

```
('Kiwi', 'Banana', 'Orange');
```

```
*** ('Apple', 'Kiwi', 'Orange');
```

```
('Kiwi', 'Apple', 'Banana', 'Orange');
```

```
('Apple', 'Kiwi', 'Banana', 'Orange');
```

Exercici 2

Consider the following array:

```
$age = array("Peter"=>"35", "Ben"=>"37");
```

Fill in the missing code to change the value of "Ben" from "37" to "47".

$age["Ben"] = "47";

Exercici 3

Consider the following array:

```
$cars = array("Volvo", "Toyota", "Tesla");
```

Fill in the missing code to change the value of the first item to "Ford".

$cars[0] = "Ford";

Add Array Items

Exercici 1

For the following array:
`$fruits = array('Apple', 'Banana', 'Orange');`
What will be a correct syntax to add a new array item?

`*** $fruits[] = 'Pineapple';`

`add_item($fruits, 'Pineappple');`

`$fruits.add_item('Pineappple');`

Exercici 2

What is a correct function to add an array item?

`add_item()`

`array_add_item();`

`*** array_push();`

Exercici 3

What is a correct syntax for adding multiple items to an existing associative array?

`*** $cars += ['color' => 'red', 'year' => 1964];`

`$cars['color' => 'red', 'year' => 1964];`

`$cars = ['color' => 'red', 'year' => 1964];`

Remove Array Items (bucar en w3schools)

Exercici 1

What is a correct function for removing array items?

`array_remove()`

`array_unset()`

`*** array_splice()`

Exercici 2

What will the array look like after the splice:`$fruits = array('Apples', 'Bananas', 'Cherries');`
`array_splice($fruits, 1, 2);`

`('Apples', 'Cherries')`

`('Bananas', 'Cherries')`

`('Apples', 'Bananas')`

`*** ('Apples')`

Exercici 3

What will the array look like after the shift:`$fruits = array('Apples', 'Bananas', 'Cherries');`
`array_shift($fruits);`

`('Apples', 'Bananas')`

`*** ('Bananas', 'Cherries')`

`('Apples')`

Sorting Arrays

Exercici 1

What will the array look like after the sort:`$x = array('Pete'=>35, 'Ben'=>37, 'Joe'=>43);`
`ksort($x);`

`('Pete'=>35, 'Ben'=>37, 'Joe'=>43)`

`('Joe'=>43, 'Pete'=>35, 'Ben'=>37)`

`*** ('Ben'=>37, 'Joe'=>43, 'Pete'=>35)`

Exercici 2

Use the correct array method to sort the `$colors` array alphabetically.

$colors = array("red", "green", "blue", "yellow");
sort($colors);

Exercici 3

Use the correct array method to sort the `$colors` array descending alphabetically.

$colors = array("red", "green", "blue", "yellow");
rsort($colors);

Exercici 4

Use the correct array method to sort the `$age` array according to the *values*.

$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");
asort($age);