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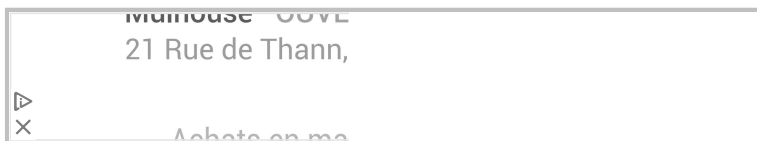
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PHP arrays - Exercises, Practice, Solution

Last update on May 30 2023 12:55:31 (UTC/GMT +8 hours)



PHP arrays [59 exercises with solution]

[An editor is available at the bottom of the page to write and execute the scripts.] Go to the editor (<https://www.w3resource.com/php-exercises/php-array-exercises.php#editorr>)

1. \$color = array('white', 'green', 'red', 'blue', 'black');

Write a script which will display the following string -

"The memory of that scene for me is like a frame of film forever frozen at that moment: the red carpet, the green lawn, the white house, the leaden sky. The new president and his first lady. - Richard M. Nixon"

and the words 'red', 'green' and 'white' will come from \$color.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-1.php>)

2. \$color = array('white', 'green', 'red')

Write a PHP script which will display the colors in the following way :

Output :

white, green, red,

- green
- red
- white

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-2.php>)

3. \$ceu = array("Italy"=>"Rome", "Luxembourg"=>"Luxembourg", "Belgium"=> "Brussels", "Denmark"=>"Copenhagen", "Finland"=>"Helsinki", "France" => "Paris", "Slovakia"=>"Bratislava", "Slovenia"=>"Ljubljana", "Germany" => "Berlin", "Greece" => "Athens", "Ireland"=>"Dublin", "Netherlands"=>"Amsterdam", "Portugal"=>"Lisbon", "Spain"=>"Madrid", "Sweden"=>"Stockholm", "United Kingdom"=>"London", "Cyprus"=>"Nicosia", "Lithuania"=>"Vilnius", "Czech Republic"=>"Prague", "Estonia"=>"Tallin", "Hungary"=>"Budapest", "Latvia"=>"Riga", "Malta"=>"Valetta", "Austria" => "Vienna", "Poland"=>"Warsaw") ;

Create a PHP script which displays the capital and country name from the above array \$ceu. Sort the list by the capital of the country.

Sample Output :

The capital of Netherlands is Amsterdam

The capital of Greece is Athens

The capital of Germany is Berlin

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-3.php>)

4. \$x = array(1, 2, 3, 4, 5);

Delete an element from the above PHP array. After deleting the element, integer keys must be normalized.

Sample Output :

array(5) { [0]=> int(1) [1]=> int(2) [2]=> int(3) [3]=> int(4) [4]=> int(5) }

array(4) { [0]=> int(1) [1]=> int(2) [2]=> int(3) [3]=> int(5) }

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-4.php>)

5. \$color = array(4 => 'white', 6 => 'green', 11=> 'red');

Write a PHP script to get the first element of the above array.

Expected result : white

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-5.php>)

6. Write a PHP script which decodes the following JSON string.

Sample JSON code :

```
{"Title": "The Cuckoos Calling",
"Author": "Robert Galbraith",
"Detail": {
```

```
"Publisher": "Little Brown"
}}
```

Expected Output :

Title : The Cuckoos Calling
 Author : Robert Galbraith
 Publisher : Little Brown

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-6.php>)

7. Write a PHP script that inserts a new item in an array in any position.

Expected Output :

Original array :

1 2 3 4 5

After inserting '\$' the array is :

1 2 3 \$ 4 5

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-7.php>)

8. Write a PHP script to sort the following associative array :

array("Sophia"=>"31","Jacob"=>"41","William"=>"39","Ramesh"=>"40") in

- a) ascending order sort by value
- b) ascending order sort by Key
- c) descending order sorting by Value
- d) descending order sorting by Key

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-8.php>)

9. Write a PHP script to calculate and display average temperature, five lowest and highest temperatures.

Recorded temperatures : 78, 60, 62, 68, 71, 68, 73, 85, 66, 64, 76, 63, 75, 76, 73, 68, 62, 73, 72, 65, 74, 62, 62, 65, 64, 68, 73, 75, 79, 73

Expected Output :

Average Temperature is : 70.6

List of seven lowest temperatures : 60, 62, 63, 63, 64,

List of seven highest temperatures : 76, 78, 79, 81, 85,

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-9.php>)

10. Write a PHP program to sort an array of positive integers using the Bead-Sort Algorithm.

According to Wikipedia "Bead-sort is a natural sorting algorithm, developed by Joshua J. Arulanandham, Cristian S. Calude and Michael J. Dinneen in 2002. Both digital and analog hardware implementations of bead sort can achieve a sorting time of $O(n)$; however, the implementation of this algorithm tends to be significantly slower in software and can only be used to sort lists of positive integers".

Input array : Array ([0] => 5 [1] => 3 [2] => 1 [3] => 3 [4] => 8 [5] => 7 [6] => 4 [7] => 1 [8] => 1 [9] => 3)

Expected Result : Array ([0] => 8 [1] => 7 [2] => 5 [3] => 4 [4] => 3 [5] => 3 [6] => 3 [7] => 1 [8] => 1 [9] => 1)

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-10.php>)

11. Write a PHP program to merge (by index) the following two arrays.

Sample arrays :

```
$array1 = array(array(77, 87), array(23, 45));
```

```
$array2 = array("w3resource", "com");
```

Expected Output :

```
Array
(
    [0] => Array
        (
            [0] => w3resource
            [1] => 77
            [2] => 87
        )
    [1] => Array
        (
            [0] => com
            [1] => 23
            [2] => 45
        )
)
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-11.php>)

12. Write a PHP function to change the following array's all values to upper or lower case.

Sample arrays :

```
$Color = array('A' => 'Blue', 'B' => 'Green', 'c' => 'Red');
```

Expected Output :

Values are in lower case.

```
Array ( [A] => blue [B] => green [c] => red )
```

Values are in upper case.

```
Array ( [A] => BLUE [B] => GREEN [c] => RED )
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-12.php>)

13. Write a PHP script which displays all the numbers between 200 and 250 that are divisible by 4.

Note : Do not use any PHP control statement.

Expected Output : 200,204,208,212,216,220,224,228,232,236,240,244,248

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-13.php>)

14. Write a PHP script to get the shortest/longest string length from an array.

Sample arrays : ("abcd","abc","de","hjjj","g","wer")

Expected Output : The shortest array length is 1. The longest array length is 4.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-14.php>)

15. Write a PHP script to generate unique random numbers within a range.

Sample Range : (11, 20)

Sample Output : 17 16 13 20 14 19 18 15 11 12

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-15.php>)

16. Write a PHP script to get the largest key in an array.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-16.php>)

17. Write a PHP function that returns the lowest integer that is not 0.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-17.php>)

18. Write a PHP function to floor decimal numbers with precision.

Note: Accept three parameters number, precision, and \$separator

Sample Data :

1.155, 2, "."

100.25781, 4, "."

-2.9636, 3, "."

Expected Output :

1.15

100.2578

-2.964

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-18.php>)

19. Write a PHP script to print "second" and Red from the following array.

Sample Data :

\$color = array ("color" => array ("a" => "Red", "b" => "Green", "c" => "White"),

"numbers" => array (1, 2, 3, 4, 5, 6),

"holes" => array ("First", 5 => "Second", "Third"));

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-19.php>)

20. Write a PHP function to sort an array according to another array acting as a priority list.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-20.php>)

21. Write a PHP function to sort subnets.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-21.php>)

22. Write a PHP script to sort the following array by the day (page_id) and username.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-22.php>)

23. Write a PHP program to sort a multi-dimensional array set by a specific key.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-23.php>)

24. Write a PHP script to sort an array using case-insensitive natural ordering.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-24.php>)

25. Write a PHP function to sort entity letters.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-25.php>)

26. Write a PHP function to shuffle an associative array, preserving key, value pairs.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-26.php>)

27. Write a PHP function to generate a random password (contains uppercase, lowercase, numeric and other) using shuffle() function.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-27.php>)

28. Write a PHP script to sort an array in reverse order (highest to lowest).

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-28.php>)

29. Write a PHP program to generate an array with a range taken from a string.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-29.php>)

30. Write a PHP program to create a letter range with arbitrary length.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-30.php>)

31. Write a PHP program to get the index of the highest value in an associative array.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-31.php>)

32. Write a PHP program to get the extension of a file.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-32.php>)

33. Write a PHP function to search a specified value within the values of an associative array.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-33.php>)

34. Write a PHP program to sort an associative array (alphanumeric with case-sensitive data) by values.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-34.php>)

35. Write a PHP script to trim all the elements in an array using array_walk function.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-35.php>)

36. Write a PHP script to lower-case and upper-case, all elements in an array.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-36.php>)

- 37.** Write a PHP script to count the total number of times a specific value appears in an array.
Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-37.php>)
- 38.** Write a PHP function to create a multidimensional unique array for any single key index.
Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-38.php>)
- 39.** Write a PHP program to remove duplicate values from an array which contains only strings or only integers.
Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-39.php>)
- 40.** Write a PHP program to get a sorted array without preserving the keys.
Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-40.php>)
- 41.** Write a PHP program to identify the email addresses which are not unique.
Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-41.php>)
- 42.** Write a PHP function to find unique values from multidimensional arrays and flatten them in zero depth.
Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-42.php>)
- 43.** Write a PHP script to merge two commas separated lists with unique value only.
Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-43.php>)
- 44.** Write a PHP a function to remove a specified, duplicate entry from an array.
Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-44.php>)
- 45.** Write a PHP script to do a multi-dimensional difference, i.e. returns values of the first array that are not in the second array.
Note : Use `array_udiff()` function.
Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-45.php>)
- 46.** Write a PHP function to check whether all array values are strings or not.
Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-46.php>)
- 47.** Write a PHP function to get an array with the first key and value.
Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-47.php>)
- 48.** Write a PHP function to set union of two arrays.
Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-48.php>)
- 49.** Write a PHP script to get an array containing all the entries of an array which have the keys that are present in another array.
Test Data : 1st array : ('c1' => 'Red', 'c2' => 'Green', 'c3' => 'White', c4 => 'Black')
2nd array : ('c2', 'c4')
Output :


```
Array
(
    [c2] => Green
    [c4] => Black
)
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-49.php>)

50. Write a PHP script to get the last value of an array without affecting the pointer.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-50.php>)

51. Write a PHP program to filter out some elements with certain key-names.

Test Data :

1st array : ('c1' => 'Red', 'c2' => 'Green', 'c3' => 'White', c4 => 'Black')

2nd array : ('c2', 'c4')

Output :

```
Array
(
    [c1] => Red
    [c3] => White
)
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-51.php>)

52. Write a PHP function to filter a multi-dimensional array. The function will return those items that will match with the specified value.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-52.php>)

53. Write a PHP script to delete a specific value from an array using `array_filter()` function.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-53.php>)

54. Write a PHP script to remove all white spaces in an array.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-54.php>)

55. Write a PHP function to convert a string to an array (trimming every line and remove empty lines).

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-55.php>)

56. Write a PHP script to create a two-dimensional array (4x4), initialized to 10.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-56.php>)

57. Write a PHP function to compares two multidimensional arrays and returns the difference.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-57.php>)

58. Write a PHP script to combine (using one array for keys and another for its values) the following two arrays.

('x', 'y', 'y'), (10, 20, 30)

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-58.php>)

59. Write a PHP program to create a range like the following array.

Array

```
(  
[20] => 2  
[21] => 3  
[22] => 4  
[23] => 5  
[24] => 6  
[25] => 7  
)
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-array-exercise-59.php>)

PHP Code Editor:



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SQL Inner Join (<https://www.w3resource.com/sql/joins/perform-an-inner-join.php>)

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