

### Exercise 1: Create an Array

Create an array called `$fruits` that contains the following values: “Apple”, “Banana”, “Cherry”.

### Exercise 2: Add Elements to an Array

Add “Date” and “Elderberry” to the `$fruits` array.

### Exercise 3: Remove Elements from an Array

Remove “Banana” from the `$fruits` array.

### Exercise 4: Associative Array

Create an associative array called `$person` with the following key-value pairs:

- "name" => "John"
- "age" => 30
- "city" => "New York"

### Exercise 5: Update an Associative Array

Update the age of the person in the `$person` array to 31.

### Exercise 6: Iterate Over an Array

Print all the elements in the `$fruits` array using a `foreach` loop.

### Exercise 7: Multidimensional Array

Create a multidimensional array called `$students` that contains the following data:

Name	Age	Grade
Alice	20	A
Bob	22	B
Carol	23	C

### Exercise 8: Access Multidimensional Array Elements

Print the grade of the second student (Bob).

### Exercise 9: Sort an Array

Sort the `$fruits` array in alphabetical order.

### Exercise 10: Filter an Array

Filter the `$students` array to include only students with a grade of “A”.

### Exercise 11: Array Functions

Use the `array_map` function to create a new array with the ages of the students doubled.

### Exercise 12: Array Keys and Values

Print all the keys and values of the `$person` array.

### Exercise 13: Combine Arrays

Combine two arrays `$names` and `$grades` into an associative array where the names are the keys and the grades are the values.

```
<?php
$names = ["Alice", "Bob", "Carol"];
$grades = ["A", "B", "C"];
?>
```

### Exercise 14: Merge Arrays

Merge two arrays `$array1` and `$array2`.

```
<?php
$array1 = ["Apple", "Banana"];
$array2 = ["Cherry", "Date"];
?>
```

### Exercise 15: Find Duplicates

Find and print duplicates in an array `$items`.

```
<?php
$items = ["Apple", "Banana", "Cherry", "Apple", "Date", "Banana"];
?>
```