**C++ Array: Exercises, Practice, Solution**

**1.** Write a C++ program to find the largest element of a given array of integers. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-1.php)

**2.** Write a C++ program to find the largest three elements in an array. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-2.php)

**3.** Write a C++ program to find second largest element in a given array of integers. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)   
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-3.php)

**4.** Write a C++ program to find k largest elements in a given array of integers. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)   
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-4.php)

**5.** Write a C++ program to find the second smallest elements in a given array of integers. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)   
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-5.php)

**6.** Write a C++ program to find all elements in array of integers which have at-least two greater elements. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)   
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-6.php)

**7.** Write a C++ program to find the most occurring element in an array of integers. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)   
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-7.php)

**8.** Write a C++ program to find the next greater element of every element of a given array of integers. Ignore those elements which have no greater element. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)   
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-8.php)

**9.** Write a C++ program to sort a given unsorted array of integers, in wave form. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
Note: An array is in wave form when array[0] >= array[1] <= array[2] >= array[3] <= array[4] >= . . . .  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-9.php)

**10.** Write a C++ program to find the smallest element missing in a sorted array. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-10.php)

**11.** Write a C++ program to update every array element by multiplication of next and previous values of a given array of integers. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-11.php)

**12.** Write a C++ program to rearrange the elements of a given array of integers in zig-zag fashion way. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
Note: The format zig-zag array in form a < b > c < d > e < f.  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-12.php)

**13.** Write a C++ program to separate even and odd numbers of an array of integers. Put all even numbers first, and then odd numbers. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-13.php)

**14.** Write a C++ program to separate 0s and 1s from a given array of values 0 and 1. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-14.php)

**15.** Write a C++ program to rearrange a given sorted array of positive integers . [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
Note: In final array, first element should be maximum value, second minimum value, third second maximum value , fourth second minimum value, fifth third maximum and so on.  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-15.php)

**16.** Write a C++ program to sort a given array of 0s, 1s and 2s. In the final array put all 0s first, then all 1s and all 2s in last. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-16.php)

**17.** Write a C++ program to sort (in descending order) an array of distinct elements according to absolute difference of array elements and with a given value. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-17.php)

**18.** Write a C++ program to move all negative elements of an array of integers to the end of the array without changing the order of positive element and negative element. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-18.php)

**19.** Write a C++ program to find a number which occurs odd number of times of a given array of positive integers. In the said array all numbers occur even number of times. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-19.php)

**20.** Write a C++ program to count the number of occurrences of given number in a sorted array of integers. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-20.php)

**21.** Write a C++ program to find the two repeating elements in a given array of integers. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-21.php)

**22.** Write a C++ program to find the missing element from two given arrays of integers except one element. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-22.php)

**23.** Write a C++ program to find the element that appears once in an array of integers and every other element appears twice. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-23.php)

**24.** Write a C++ program to find the first repeating element in an array of integers. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-24.php)

**25.** Write a C++ program to find and print all common elements in three sorted arrays of integers. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-25.php)

**26.** Write a C++ program to find and print all unique elements of a given array of integers. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-26.php)

**27.** Write a C++ program to find the number of pairs of integers in a given array of integers whose sum is equal to a specified number. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-27.php)

**28.** Write a C++ program to arrange the numbers of a given array in a way that the sum of some numbers equal the largest number in the array. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-28.php)

**29.** Write a C++ program to find the second lowest and highest numbers in a given array. [Go to the editor](https://www.w3resource.com/cpp-exercises/array/index.php#EDITOR)  
[Click me to see the sample solution](https://www.w3resource.com/cpp-exercises/array/cpp-array-exercise-29.php)