

## **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](#)  
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2. Write a C++ program to find the largest three elements in an array. [Go to the editor](#)  
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3. Write a C++ program to find second largest element in a given array of integers. [Go to the editor](#)  
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4. Write a C++ program to find k largest elements in a given array of integers. [Go to the editor](#)  
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5. Write a C++ program to find the second smallest elements in a given array of integers. [Go to the editor](#)  
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6. Write a C++ program to find all elements in array of integers which have at-least two greater elements. [Go to the editor](#)  
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7. Write a C++ program to find the most occurring element in an array of integers. [Go to the editor](#)  
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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](#)  
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9. Write a C++ program to sort a given unsorted array of integers, in wave form. [Go to the editor](#)  
Note: An array is in wave form when  $\text{array}[0] \geq \text{array}[1] \leq \text{array}[2] \geq \text{array}[3] \leq \text{array}[4] \geq \dots$   
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10. Write a C++ program to find the smallest element missing in a sorted array. [Go to the editor](#)  
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**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](#)

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**12.** Write a C++ program to rearrange the elements of a given array of integers in zig-zag fashion way. [Go to the editor](#)

Note: The format zig-zag array in form  $a < b > c < d > e < f$ .

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**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](#)

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**14.** Write a C++ program to separate 0s and 1s from a given array of values 0 and 1.

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**15.** Write a C++ program to rearrange a given sorted array of positive integers . [Go to the 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.

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**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](#)

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**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](#)

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**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.

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**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](#)

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**20.** Write a C++ program to count the number of occurrences of given number in a sorted array of integers. [Go to the editor](#)

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**21.** Write a C++ program to find the two repeating elements in a given array of integers. [Go to the editor](#)

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**22.** Write a C++ program to find the missing element from two given arrays of integers except one element. [Go to the editor](#)

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**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](#)

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**24.** Write a C++ program to find the first repeating element in an array of integers. [Go to the editor](#)

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**25.** Write a C++ program to find and print all common elements in three sorted arrays of integers. [Go to the editor](#)

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**26.** Write a C++ program to find and print all unique elements of a given array of integers. [Go to the editor](#)

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**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](#)

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**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](#)

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**29.** Write a C++ program to find the second lowest and highest numbers in a given array. [Go to the editor](#)

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