**Problem statements on array**

**https://www.w3resource.com/cpp-exercises/array/index.php**

**1.** Write a C++ program to find the largest element of a given array of integers.

**2.** Write a C++ program to find the largest three elements in an array.

**3.** Write a C++ program to find second largest element in an given array of integers.

**4.**Write a C++ program to find k largest elements in a given array of integers. 

**5.** Write a C++ program to find the smallest and second smallest elements in a given array of integers. 

**6.** Write a C++ program to find all elements in array of integers which have at-least two greater elements. 

**7.** Write a C++ program to find the most occurring element in an array of integers. 

**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. 

**9.** Write a C++ program to sort a given unsorted array of integers, in wave form.   
Note: An array is in wave form when array[0] >= array[1] <= array[2] >= array[3] <= array[4] >= . . . .

**10.** Write a C++ program to find the smallest element missing in a sorted array. 

**11.** Write a C++ program to update every array element by multiplication of next and previous values of a given array of integers. 

**12.** Write a C++ program to rearrange the elements of a given array of integers in zig-zag fashion way.   
Note: The format zig-zag array in form a < b > c < d > e < f.

**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. 

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

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

**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. 

**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. 

**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. 

**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.

**20.** Write a C++ program to count the number of occurrences of given number in a sorted array of integers. 

**21.** Write a C++ program to find the two repeating elements in a given array of integers. 

**22.** Write a C++ program to find the missing element from two given arrays of integers except one element. 

**23.** Write a C++ program to find the element that appears once in an array of integers and every other element appears twice. 

**24.** Write a C++ program to find the first repeating element in an array of integers. 

**25.** Write a C++ program to find and print all common elements in three sorted arrays of integers. 

**26.** Write a C++ program to find and print all unique elements of a given array of integers. 

**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. 

**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. 

**29.** Write a C++ program to find the second lowest and highest numbers in a given array.

https://www.sitesbay.com/cpp-program/index