**C HOMEWORKS – ARRAYS**

1. Write a C program to sort a numeric array and a string array.
2. Write a C program to test if an array contains a specific value.
3. Write a C program to find the index of an array element.
4. Write a C program to remove a specific element from an array.
5. Write a C program to insert an element (specific position) into an array.
6. Write a C program to reverse an array of integer values.
7. Write a C program to find the common elements between two arrays of integers.
8. Write a C program to remove duplicate elements from an array.
9. Write a C program to test the equality of two arrays.
10. Write a C program to separate even and odd numbers of an given array of integers. Put all even numbers first, and then odd numbers.
11. Write a C program to find the k largest elements in a given array. Elements in the array can be in any order.
12. Write a C program to find the numbers greater than the average of the numbers of a given array.
13. Write a C program to find the length of the longest consecutive sequence of a given array of integers.
14. Write a C program to divide a given array of integers into given k non-empty subsets whose sums are all equal. Return true if all sums are equal otherwise return false.
15. Write a C program to multiply corresponding elements of two arrays of integers.
16. Write a C program to merge two given sorted array of integers and create a new sorted array.
17. Write a C program to calculate the median of an given unsorted array of integers.
18. Write a C program to find a number that appears only once in a given array of integers, all numbers occur twice.
19. Write a C program to remove all occurrences of a specified value in a given array of integers and return the new length of the array.
20. Write a C program to find the number of elements that is higher than the average of given array of integers.