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.