

1- Fill in 1-D array from user, Write a C function to sort the Array in ascending order

2- Fill in 1-D an array of size **N-1** from the user input, such that it only contains distinct integers in the range of **1 to N**.

Find the missing element.

Input :

N = 5

A[] = {1, 2, 3, 5}

Output: 4

Input :

N = 10

A[] = {6, 1, 2, 8, 3, 4, 7, 10, 5}

output: 9

3-Write a Function in C to count the frequency of a given element in a 2-D array

Input : the 2-D array with arbitrary col x row , the element of the frequency

Output : number of occurrence of that element in the array

Example:

2-D array , element = 4

1 2 3 4

5 5 4 3

1 2 3 4

Output = 3

2-D array , element = 2

1 2 5 4 10 2

2 3 6 2 7 1

Output = 4

4-Write a C Function that takes a sentence from the user and print the total number of alphabets, digits and special characters in the sentence.

Example:

Input : Welcome to the C_Programming@2022

Output:

Number of alpha = 24

Number of digits = 4

Number of special char = 5

Note: space ' ', and the null terminator '\0' are special characters.