ARRAYS

1. WAP in C to initialise two arrays A and B and print the elements which are common to both the arrays.
2. Declare an array of integer type. It has 10 elements out of which one is greater by 5 than another element.WAP in C to find both the elements.

For e. g:- Array A has elements 2,3,4,7

Your program should display 2 and 7 as 2+5=7

1. Declare an array and initialise it to {10, 20.89, 44, 23, -12, -67, -12.34, 78}.WAP in C to find the sum of all elements except the negative ones.
2. Declare an array of integer type. Initialise it at run time and print the array elements according to the following rules:-

* If the array element is 0(zero), do not display 0 and read the next array element .
* If the array element is > 0 then display the element and continue reading.
* If the array element is <0 then stop reading and displaying the array elements.

1. WAP in C to declare and initialise an array A to {5,6,7,5,4,5,7,4,4}.The program should print the duplicate elements only once. Your program should display 5,6,7,4.You should not modify the array elements.
2. WAP in C to declare an array A of type float. Find out the ceil and floor of every element of the array. Store the ceil values in array C and the floor values in array D.

* Calculate the ceil and floor values by using the standard ceil() and floor() functions
* Calculate the ceil and floor values without using the ceil and floor functions.

1. WAP in C to declare two array A and B. Initialise A to {2,5,8,4,5,10,11,6} and initialise B to {101,120,144,11,3}.Declare an array C. Do as per the following steps:-

* Store the even numbers of array A in C
* Sore the even numbers of array B in C

Array C should have the following elements:- {2,8,4,10,6,120,144}

1. WAP in C that will prompt for and receive 10 integers from the user, and count the number of integers whose value is less than the average value of the integers. Your program is to display the average integer value and the count of integers less than average.
2. WAP in C to input the elements of a two dimensional array of size 3\*3 and do as follows:-

* Find the sum of its diagonal elements
* Find the sum of the elements of first and last row
* Find the sum of the elements of the elements of the first and last column

1. WAP in C to declare and initialise a two dimensional array of size 2\*2 and find out the determinant of the matrix.
2. WAP to input character in array than find how many are vowel and consonant.
3. WAP to input character in array than replace all vowels with # character.
4. WAP to input elements in an array than find reverse each element of the array.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| 123 | 345 | 5678 | 543 | 321 | 678 | 890 | 1234 |

Example

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| --- | --- | --- | --- | --- | --- | --- | --- |
| 321 | 543 | 8765 | 345 | 123 | 876 | 098 | 4321 |

1. WAP to count how many palindrome numbers is present in an array.
2. WAP to count separately how many even numbers are present in lower and upper triangle in a matrix.
3. WAP to find smallest and largest element in a matrix of each row and column.
4. WAP to find sum and average of each rows and columns separately.
5. WAP to convert all characters of an array into its equivalent ASCII value.

Example: Input-ABC Output- 65 66 67.

1. \*C Program to Split an Array from Specified Position & Add First Part to the End
2. \*C Program to Print All the Repeated Numbers with Frequency in an Array.
3. C Program to Print the kth Element in the Array
4. C Program to Find the Number of Elements in an Array
5. C Program to Print the Alternate Elements in an Array
6. \*C Program to Find the two Elements such that their Sum is Closest to Zero
7. \*C Program to Find Union & Intersection of 2 Arrays
8. [C Program to Find the Second Largest & Smallest Elements in an Array](http://www.sanfoundry.com/c-program-second-largest-smallest-array-average/)
9. \*C Program to Calculate Standard Deviation
10. program to insert element( integer) in an array and store square of each element in another array;(input 1 2 3 4 5 and output: 1 4 9 16 25)
11. Insert 3 no in an array store addition in 4th position ,max value in 5 position, min in

6th position (input 1 2 3 and output:1 2 3 6 3 1)

1. Program demonstrates how to get the length of a C array using the sizeof operator; (Output: int array has 20 bytes and 5 elements or char array has 4 bytes and 4 elements.)
2. \*Write a program to find and print all the leader elements in an array. A leader element is an element which is greater than all of its right hand side elements.

Eg:- Array is of size [5], elements are 2,3,5,3,4. In this leader elements 5 and 4.

1. Write a program to count how many prime numbers are present in an array?
2. Write a program to find mean, Average and standard deviation of the elements in an array?
3. Write a program to count frequency of each element in an array and then arrange them according to their frequency from higher to lower?
4. Write a program to replace zero’s in a matrix with multiples of a given n?