TCS_Coding_Practice_Day9

1. Write a C program to display all the unique (non-redundant) elements of an array. Take input from STDIN.

Example:

Input:

arr[]={2,1,2,3,4,1}

Output:

3, 4

2. Write a C program to display all the array elements in ascending order after removing duplicate elements. Take input from STDIN.

Example:

Input:

arr[]={2, 1, 2, 3, 4, 1}

Output:

1, 2, 3, 4

3. Given a number n, write an efficient function to print all prime factors of n whose multiplication is given number n.
For example, if the input number is n=12, then output should be "2 2 3". And if the input number is n=315, then output should be "3 3 5 7". Take input from command line argument.

Test Cases:

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1. VALID INPUT:

a) Only one argument will be given as input.

2. INVALID inputs:

a) No argument
b) Two or more than two arguments.
c) Characters other than integer

3. You should generate output as follows:

a) Print to the STDOUT without any additional text.
b) If error print 'ERROR' to the STDOUT without any additional text.

4. Write a c program to rotate (anti-clockwise) an array arr[] of size n by d elements. Take input from STDIN.

Example:

Input:

arr[] = {1, 2, 3, 4, 5, 6, 7}
d = 2

Output:

arr[] = {3, 4, 5, 6, 7, 1, 2}

5. Write a C program to merge two sorted array such that the output will be in sorted order. Take input from STDIN.

Example:

Input:

arr1[] = {1,3,4,5}

arr2[] = {-5,0,2,4}

Output:

{-5,0,1,2,3,4,4,5}