Program 1:

You are given a number N. Write a program to print all sequences of consecutive numbers whose sum is equal to N. Take input from STDIN and display output to STDOUT without any additional text.

Example:
Input: N=15
Output:
8 7
6 5 4
5 4 3 2 1

Program 2:

Given an unsorted array of non-negative integers and a number x, find a continuous sub-array whose sum is exactly x. Take input from STDIN and display output to STDOUT without any additional text.

Example:
Input: a[]={2, 12, 4, 7, 5 ,6, 10, 3, 18}
x=16
Output:12 4
4 7 5
6 10

Program 3:

Find Second largest element in an array.
Given an array of integers, your task is to write a program that efficiently finds the second largest element present in the array. There should be at least two elements in the array. Take input from STDIN. Display output to STDIN.

Example:
Input : arr[] = {2, 25, 1, 10, 14, 1}
Output : The second largest element is 14.

Input : arr[] = {10, 15, 10}
Output : The second largest element is 10.

Input : arr[] = {10, 10, 10}
Output : The second largest does not exist.

Program 4:

C Program to count number of lines in a file. Take file name from STDIN and display output to STDOUT without any additional text.

Program 5:

C Program to reverse every word of given String without using any library function. 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.

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