Program 1:
Given a 2D array, print it in spiral form. Take input from STDIN.

Examples:
Input:
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    1   2   3   4
    5   6   7   8
    9  10  11  12
   13  14  15  16
```

Output:
1 2 3 4 8 12 16 15 14 13 9 5 6 7 11 10

Program 2:
Given three arrays sorted in non-decreasing order, print all common elements in these arrays. Take input from STDIN.

Examples:
Input:
ar1[] = {1, 5, 10, 20, 40, 80}
ar2[] = {6, 7, 20, 80, 100}
ar3[] = {3, 4, 15, 20, 30, 70, 80, 120}

Output: 20, 80

Program 3:
Write a C program that, given an array A[] of n numbers and another number K, find the pair of all elements in A whose sum is exactly K. Take input from STDIN.

Example:
Input:
A[]={1, 4, 15, 6, 10, 2}, K=16

Output:
(1, 15)
(6, 10)

Program 4:
Given a string, find the second most frequent character in it. Take input from STDIN.

Examples:
Input: str = "aabababa";

Output: Second most frequent character is 'b'

Program 5:
Find the GCD and LCM of Two number. Take input from command line argument.

Example:
Input:
30
40

Output:
10
120

Test Cases:
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1. VALID INPUT:
a) Only two arguments will be given as input.

2. INVALID inputs:
a) No argument
b) One argument
c) More than two arguments.
d) String

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.