Program 1

Count number of days between two giving dates for e.g. start date 01/01/2015 and end date 01/01/2019.

Test Cases:

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1. VALID INPUT:

a) Only two arguments will be given as input. (e.g.01/01/2015 and 01/01/2019)

2. INVALID inputs:

a) One argument and More than two arguments.

b) Negative Date.

c) Day greater than 31 or less than 1.

d) Month greater than 12 or less than 1.

3. You should generate output as follows:

a) Print number of days to the STDOUT without any additional text.

c) If error print 'ERROR' to the STDOUT without any additional text.

Program 2

C program to remove characters from the first string which are present in the second string. Two string will be given as input from command line as first and second argument. You need to remove characters from the first string which are present in the second string print it.

For ex : [./a.out morzilla mzi] =>orzlla

[./a.out morzilla123 la] =>morzi123

Test Cases:

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1. VALID INPUTS:

a) Only two string will be given as input through command line argument. For Ex:- [./a.out mozilla mzi] => orzlla

2. INVALID INPUTS:

a) no command line argument. [./a.out] => ERROR

b) More than two command line argument [./a.out Cat123 abc axr] =>
ERROR

3. OUTPUT:

a) Write the output to stdout WITHOUT any other additional text. For example [./a.out mozilla123 la] => morzi123

b) In case of invalid input print 'ERROR' to the STDOUT without any other additional text and terminate

Problem 3

C program to convert a number belonging to one base into its corresponding equivalent belonging to any other base. For e.g. binary number (Base 2) to Decimal (Base 10)

Test Cases:
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1. VALID INPUT:
a) Three positive integers will be given as input. First input is the given number second input is its current base and third input is the base of the converted number.

2. INVALID INPUTS:
a) 0
b) -5
c) Fraction
d) String
e) Two or less command line arguments

3. You should generate output as follows:
a) For valid input print only the output to the STDOUT without any other additional text.
b) If any error: print ERROR to the STDOUT without any other additional text.

Input:
17 10 2
Output:
10001

Problem 4
C program to display Armstrong numbers between two intervals.

Test Cases:
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1. Valid Input:
a) Only two positive Integer will be given as input.

2. Invalid Inputs:
a) Only one argument.
b) -5
c) fraction
d) string

3. You should generate output as follows:
a) Print all the armstrong number between the given range seperated by a single space to the STDOUT without any additional text.
b) If error print 'ERROR' to the STDOUT with out any additional text.

Problem 5
C program to display Fibonacci sequence up to N terms.

Test Cases:
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1. VALID INPUT:
a) Only one positive Integer (greater than 0) will be given as input.

2. INVALID INPUTS:
a) -5
b) no command line argument
c) string
d) two or more command line arguments

3. OUTPUT:
a) Print only the terms separated by a space to the STDOUT without any other additional text.
b) In case of invalid input print 'ERROR' to the STDOUT without any other additional text and terminate.

Input:
7
Output:
0 1 1 2 3 5 8