Level 2(If else)

1. Reminder of 2 numbers

Write a program to find remainder of two given numbers

Input Format:

First line contains space separated two integer input n,m.

Output Format:

Print reminder of 2 numbers if n>m else print -1

Sample Input:

206

Sample Output:

2

Sample Input:

10 20

Sample Output:

-1

2. Grading System.

Write a program to find grade of the student marks

- If marks scored 90+ then print A+.
- If marks scored 80+ then print A.
- If marks scored 70+ then print B+.
- If marks scored 60+ then print B.
- If marks scored 50+ then print C+.
- If marks scored 40+ then print C.
- If marks scored less than 40 then print "Fail".
- If marks scored is less than 0 or greater than 100 then print "Invaild".

	Input Format:
	First line contains a single integer input n.
	Output Format:
	Print its respective grade as per the n input
	Sample Input:
	83
	Sample Output:
	A
	Sample Input:
	9
	Sample Output:
	Invaild
	Sample Input:
	38
	Sample Output:
	Fail
3.	Largest Number
	Write a program to find the largest number among 4 integer numbers
	Input Format:
	First line contains space separated three integer input n,m,l,k.
	Output Format:
	Print largest number of 4 numbers

Sample Input:

10 25 5 30

Sample Output:

30

4. Smallest Number

Write a program to find the smallest number among 4 integer numbers

Input Format:

First line contains space separated three integer input n,m,l,k.

Output Format:

Print smallest number of 4 numbers

Sample Input:

1354

Sample Output:

1

5. Swap 2 Numbers

Write a program to swap two numbers.

Input Format:

First line consists of a positive integer n1.

Second line consists of a positive integer n2.

Output Format:

Prints the required result before and after swapping the numbers.

Sample Input:

10 20

Sample Output:

Before Swapping

10 20

After Swapping

20 10

Level 1(Loops and if)

1. Factors of number

Write a program to find factors of given number

Input Format:

First line consists of a positive integer n

Output Format:

Print the space separated integer factors of given number

Sample Input:

20

Sample Output:

1 2 4 5 10 20

2. Count factors of number

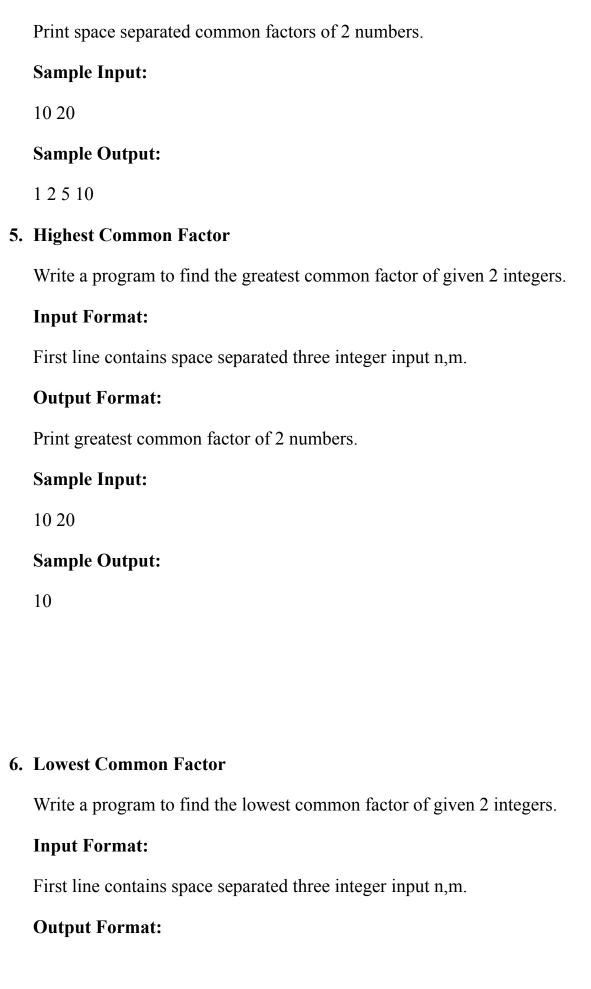
Write a program to count factors of given number

Input Format:

First line consists of a positive integer n

Output Format:

	Print the integer count.
	Sample Input:
	20
	Sample Output:
	6
3.	Prime Number
	Write a program to find whether the given number is a prime number or not.
	Input Format:
	First line consists of a positive integer n
	Output Format:
	Print Yes if the number is prime, else print No
	Sample Input:
	11
	Sample Output:
	Yes
4.	Common Factors
	Write a program to find common factors of given 2 integers.
	Input Format:
	First line contains space separated three integer input n,m.
	Output Format:



Print lowest common factor of 2 numbers. **Sample Input:** 10 20 **Sample Output:** 1 7. Lowest Common Factor Excluding 1 and 2 Write a program to find the lowest common factor of given 2 integers. **Input Format:** First line contains space separated three integer input n,m. **Output Format:** Print lowest common factor of 2 numbers excluding 1 and 2 **Sample Input:** 10 20 **Sample Output:** 5

8. Common Multiples

Write a program to print common multiples of 2 numbers.

Input Format:

First line contains a single integer input n.

Second line contains space separated 2 integer input a,b.

Output Format: Print first **n** common multiples of a and b. **Sample Input:** 9 3 4 **Sample Output:** 12 24 36 48 60 72 84 96 108 9. Least Common Multiple Write a program to print least common multiple of 2 numbers **Input Format:** First line contains space separated 2 integer input a,b. **Output Format:** Print least common multiple of a and b. **Sample Input:** 8 12 **Sample Output:** 24

10. Sum of n natural numbers

Write a program to find sum of first N natural numbers

Input Format:

First line contains a single integer input n.

Output Format:

Print sum of n natural numbers

Sample Input:

100

Sample Output:

5050