

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:

20 6

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:

1 3 5 4

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 space separated common factors of 2 numbers.

Sample Input:

10 20

Sample Output:

1 2 5 10

5. Highest Common Factor

Write a program to find the greatest common factor of given 2 integers.

Input Format:

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

Output Format:

Print greatest common factor of 2 numbers.

Sample Input:

10 20

Sample Output:

10

6. Lowest Common Factor

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.

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