Programming Practice Questions - Factorial Based

1. Factorial of a number

Input: Take a number 'n'.

Output: Print the factorial of 'n'.

Example: n = 5, Output: 120

2. Print all factorials from 1 to n

Input: A number 'n'

Output: Print factorials from 1 to 'n'

Example:

1! = 1

2! = 2

3! = 6

4! = 24

3. Check if a number is a Strong Number

A Strong number is one where the sum of the factorials of its digits equals the number itself.

Example: 145 = 1! + 4! + 5! = 145

4. Print first n factorial numbers

Input: n

Output: Print the first 'n' factorial numbers.

5. Count trailing zeros in a factorial

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Input: n

Output: Count how many trailing zeros are in n!

Example: n = 10, Output: 2 (since 10! = 3628800)

6. Function to return factorial

Write a function: int factorial(int n)

7. Print factorial using recursion

Calculate factorial using a recursive function.

8. Check if the factorial of n is even or odd

Check if n! is even or odd.

9. Print factorial table

Input: n

Output: Print in the format:

1 x 1 = 1

2 x 1 = 2

3 x 2 = 6

10. Reverse factorial

Input: A number n

Output: Check if n is the result of any factorial.

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Example: 120 = 5! = Yes

150 = No