

Ahsanullah University of Science and Technology, Bangladesh

CSE 1102: Elementary Structured Programming Lab (Fall 24)

Recursion Practice Problems

SL	Problem statement	
1	Write a recursive function in C to print numbers from 1 to N.	
2	Write a recursive function in C to print numbers from N to 1.	
3	Write a recursive function to count the digits of an integer number and print the digits.	
4	Write a recursive function to calculate the sum of digits of a number.	
5	Write a recursive function to reverse an integer number.	
6	Write a recursive function to find the factorial of a given number.	
7	Write a recursive function to find the sum of first N natural numbers. $(1+2+3 + \dots +N)$	
8	Write a recursive function to find the Nth Fibonacci number.	
9	Write a recursive function to check whether a number is prime.	
10	Write a recursive function to compute the power of a number $(\text{Base}^{\text{power}})$.	
11	Write a recursive function to find the greatest common divisor (GCD) of two numbers.	
12	Write a recursive function to find the Least Common Multiple (LCM) of two numbers.	