



# LAB-4+

Name \_\_\_\_\_

NickName \_\_\_\_\_ ID \_\_\_\_\_

CPE100 | Computer Programming for Engineers | 2023

---

## PROBLEM 1

---

Write a C program to read one integer, namely  $n$ , from your standard input and show the following results.

1. Summation from 1 to  $n$ .

2.  $n!$

---

## PROBLEM 2: FIBONACCI NUMBER

---

Fibonacci number is a series of integers where the current position can be calculated by the sum of two previous numbers. Print out n Fibonacci's numbers.

1   1   2   3   5   8   13   21   34   55   89   144   233

---

### PROBLEM 3: PRIME NUMBER

---

Write a C program to read one integer from your standard input and show the prime numbers from 2 to that input number. The format can be shown as below. There must be 10 numbers displayed per one row.

Enter the number: 40

2 3 5 7 11 13 17 19 23 29  
31 37

---

## PROBLEM 4: PRIME FACTOR

---

Write a C program to read one integer from your standard input and show the prime factor of such number.

Enter the number: 60

The factor of 60 is  $2*2*3*5$

---

## PROBLEM 5: MY CALENDAR

---

Write a C program to print out the current month using for loop as follows.

SEPTEMBER 2022

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	