

Instructions -

1. The program name should be the name of the question e.g. the problem's name is **A**, save the solution of that problem with the name **A.c**.
 2. Put all the .c files of your solutions in a folder and name the folder with your ID number and zip it. Upload the zip folder in google classroom's classwork.
 3. Follow the exact output format shown in 'Sample Output'.
 4. If any similarities are found in the codes of multiple students, everyone will be given an **F** grade!!
So refrain from COPY_PASTING!!
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- A. Write a program to input two integers and determine that if the first is multiple of second.

<u>Sample Input</u>	<u>Sample Output</u>
6 3 11 2	6 is a multiple of 3 11 is not a multiple of 2

- B. Write a program to print the n-th number of Fibonacci series.

<u>Sample Input</u>	<u>Sample Output</u>
6 7	8 13

- C. Write a program that take a number as input and which has following options:
1. Factorial of a number.
 2. Prime or Not
 3. Odd or even
 4. Exit.

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C:\Users\MEEEM\Downloads\Untitled1.exe
Enter a number: 5
Enter 1.for Factorial
2. to check prime or not
3. to check odd or even
4. to Exit
1
Factorial(5) = 120
2
5 is a prime number
3
5 is an odd number
4
GOOD BYE!
Process returned 0 (0x0)   execution time : 9.361 s
Press any key to continue.

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D. Write a program to take the row number as input and print the following pattern -

<u>Sample Input</u>	<u>Sample Output</u>
5	<pre> ***** * * * * * * * * ***** </pre>
6	<pre> ***** * * * * * * * * * * ***** </pre>

E. Write a program to input a number and print its reverse number. Also check that the number is palindrome or not.

<u>Sample Input</u>	<u>Sample Output</u>
123	321, Not Palindrome
121	121, Palindrome
1	1, Palindrome

- F. Write a program that prints the **difference** between the maximum and the minimum number of an array.

Sample input	Sample Output
5 10 31 1 19 90	89

- G. Write a program that prints the first **n** prime numbers. This program will take **n** as input and will print the first n prime numbers.

Sample input	Sample Output
7	2 3 5 7 11 13 17

- H. Write a program that will print the sum of digits of the given number.

Sample input	Sample Output
5277	Sum of digits of 5277 = 21

- I. A perfect square is an integer that is the square of an integer; in other words, it is the product of some integer with itself. For example, 9 is a square number, since it can be written as 3×3 . Write a program that will print if the given number is a square number or not.

Sample input	Sample Output
7	7 is not a square number
9	9 is a square number