# Iteration/Repetition using For Loop Practice

**Problem 1: Average of 10 numbers**

Take 10 integers from keyboard using loop and print their average value on the screen.

**Problem 2: ASCII converter**

Print ASCII values and their equivalent characters. ASCII value vary from 0 to 255.

**Problem 3: Overtime Calculator**

Write a program to calculate overtime pay of 10 employees. Overtime is paid at the rate of BDT. 120.00 per hour for every hour worked above 36 hours in a week. Assume that employees do not work for fractional part of an hour

**Problem 4: De Factorial**

Write a program to find the factorial value of any number entered through the keyboard.

**Problem 5: Prime Time**

Check the following number prime or not by taking input from the user.

**Problem 6: Star Pyramid**

Print the following pattern of pyramid with star.

**Problem 7: Factorial Fun**

Read two numbers N1 and N2. Write a program to calculate the factorial of these numbers and finally sum the factorials of these numbers as output. (Just use for loop to do this)

**Input**

The input file contains many test cases. Each test case contains two integer numbers N1 (0 ≤ N1 ≤ 20) and N2 (0 ≤ N2 ≤ 20).

**Output**

For each test case in the input your program must print a single line, containing a number that is the sum of the both factorial (N1 and N2).

**Example input output:**

|  |  |
| --- | --- |
| Sample Input | Sample Output |
| 4 4 | **48** |
| 0 0 | **2** |
| 4 2 | **26** |

**Problem 8: Sum of the series**

Consider the following series 9+13+17+21+……+n=?

Now think about the problem, you need to take the input from the user to know the value of ‘n’ and then calculate the sum of the series. (**N: B: Do not use any formula just use simple for loop to do that**)

**Problem 9: Star Pyramid**

Write a C program to display a half pyramid of star.

**Sample output:**

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**\*\***

**\*\*\***

**\*\*\*\***

**\*\*\*\*\***

**Problem 10: Binary half Pyramid**

Write a C program to display a half pyramid consist of only Zeros and Ones.

**Sample output:**

**0**

**01**

**010**

**0101**

**01010**

**Problem 11: Number sequence pyramid**

Write a C program to display the following pyramid.

**Sample output:**

**1**

**23**

**345**

**4567**

**56789**

**Problem 12: Reverse “A” Pyramid**

Write a C program to display following output

**Sample output:**

**AAAAA**

**AAAA**

**AAA**

**AA**

**A**

**Problem 13: Reverse Number sequence**

Write a C program to display following output

**Sample output:**

**54321**

**4321**

**321**

**21**

**1**