Online 1 Set 2:

July 2023 CSE 102

Conditional Statement & Loops

Full Marks: 10

Triadic Fibonacci

Problem Statement:

Write a C program which takes a non-negative integer number N as input, and prints a series with N elements- where each element is the sum of its **previous three elements**. The first three terms will be 0, 1, and 1.

Restrictions:

You cannot use one/multi-dimensional arrays or any other data structures. You cannot call any library functions (except scanf, printf).

The output should be correct for 0<=N<=38.

Sample Input/Outputs:

Sample Input 1:	Sample Input 2:	Sample Input 3:
N=10	N=15	N=2
Output 1:	Output 2:	Output 3:
0 1 1 2 4 7 13 24 44 81	0 1 1 2 4 7 13 24 44 81 149 274 504 927 1705	0 1

Submission Guidelines:

➔ Solve the problem and rename the file as <your_id>.c (Example: student with ID 2205999 will rename it as 2205999.c).
➔ Then upload the .c file in Moodle.
➔ **Do not copy from your classmate. In this case both of you will get -100%. Also do not copy code from any website or ChatGPT. You will get -200% in this case.**