Task-1:
Generate the following sequence with recursive approach

1 , 3, 6, 10, 15, 21, 28 . . ..

Generate the following sequence with recursive approach

1, 2, 4, 7, 11, 16, 22 . . ..

Write a program in C to Print Fibonacci Series using recursion.
Write a program in C++ to count the digits of a given number using recursion
Write a program in C to find the sum of digits of a number using recursion.
Calculate the sum of numbers from 1 to n using recursion

Task-2: Write a indirect recursive code for the above task-1 (a,b) part with same approach as defined in the above sample code of **In-Direct Recursion**

Task 3: Sort The Unsorted Numbers with both tail recursive and Normal recursive approach

Sample Input and Output
Given array is
5 4 3 2 1
Sorted array is
1 2 3 4 5

Task 4: Run the code of nested recursion and draw the stack.
Task-5:

A. Design the function with recursive approach to find the number of existing destination path in the above provided sample code link
B. Change the Maze with following configuration. Find the optimal path to reach the destination with recursive approach

```
int maze[N][N] = { { 0, 0, 0, 1 },
                  { 0, 1, 1, 1 },
                  { 0, 1, 1, 0 },
```

C. Design n queen problem using recursive approach.