C program to implement fibonacci series using recursion

Algorithm:

→ main ()

1. Start

2. Input n

3. Repeat through Step 3.

   for (i=0; i<=n; i++)

      3.1   t = fibr(i)

      3.2   print t

4. Stop

→ fibr (int num)

  1. num = i

  2. if (num <= 1)

       return num

  3. return fibr (num - 2) + fibr (num - 1).

Flowchart :

```
        ( START )
            |
            v
      / Input n /
            |
            v
False  /  for ( i=0; i<=n; i++ )  \<----+
   +--<                           >     |
   |    \                         /     |
   |          | True                    |
   |          v                         |
   |     +-----------+                  |
   |     | t = fibr(i) |                |
   |     +-----------+                  |
   |          |                         |
   |          v                         |
   |     / print t /-------------------+
   +-------->  |
              v
         ( STOP )
```

```
      ( num = i )
           |
           v
          / \          True
         / if  \----------->  ( return
         \ num<=1 /              num  )
          \ /
           | False
           v
   ( return fibr(num-2)
      + fibr(num-1) )
```