Code, Compile & Run

Idle   ✕   ▾

| Contest Code/Name (e.g. JULY15/PRACTICE) | Problem Code/Name (e.g. TEST) | Select |

C (gcc 6.3)   ▾   💾   🗑   Code gets auto saved every second   ℹ   ⬇   ⤢   ⚙

```c
1    #include<stdio.h>
2    void fibonacciSeries(int range)
3    {
4        int a=0, b=1, c;
5        while (a<=range)
6        {
7            printf("%d\t", a);
8            c = a+b;
9            a = b;
10           b = c;
11       }
12   }
13
14   int main()
15   {
16       int range;
17
18       printf("Enter range: ");
19       scanf("%d", &range);
20
21       printf("The fibonacci series is: \n");
22
23       fibonacciSeries(range);
24
25       return 0;
26   }
```

252   ↻

Open File   ✓ Custom Input   Run

Custom Input

5

Status Successfully executed   Date 2020-07-01 04:42:15   Time 0 sec   Mem 9.424 kB   ✕

Input

5

Output

```
Enter range: The fibonacci series is:
0    1    1    2    3    5
```

Algorithm :

Step 1 : start

step 2 : Read the value of n & set $f=0, f1=-1, f2=1$

step 3 : while $(f<n)$ do

$\qquad f = f1 + f2$

$\qquad f1 = f2$

$\qquad f2 = f$

$\qquad$ print f

$\qquad$ else Goto step 5

step 4 : Go to step 3

step 5 : stop .

Flowchart

```
              ( start )
                 |
                 v
   +-------------------------------------+
   | Declare Variables i, n, a, b, sum   |
   +-------------------------------------+
                 |
                 v
   +-------------------------------------+
   | Initialize a=0, b=1 and sum=0       |
   +-------------------------------------+
                 |
                 v
   / Input the number to be printed /
                 |
                 v
   / The fibonacci series is : a b /
                 |
                 v
   +-------------------+
   |      i = 2        |
   +-------------------+
                 |
                 v
       F      < i <= n >      T
      <------             ------->
      |                          |
      |                          v
      |              +------------------------+
      |              |  Sum = a + b           |
      |              |  a = b                 |
      |              |  b = sum, i++          |
      |              +------------------------+
      |                          |
      |                          v
      |                   / Print sum /
      |                          |
      v                          v
   ( stop ) <--------------------
```