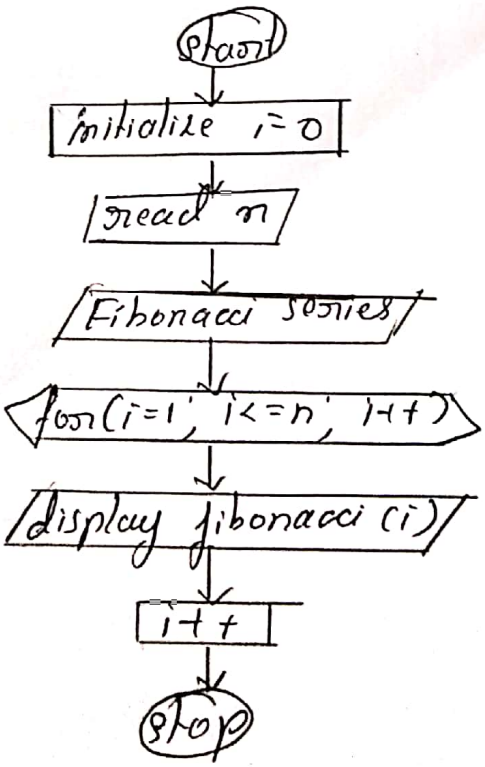
Fibonacci series using recursion.

Algorithm

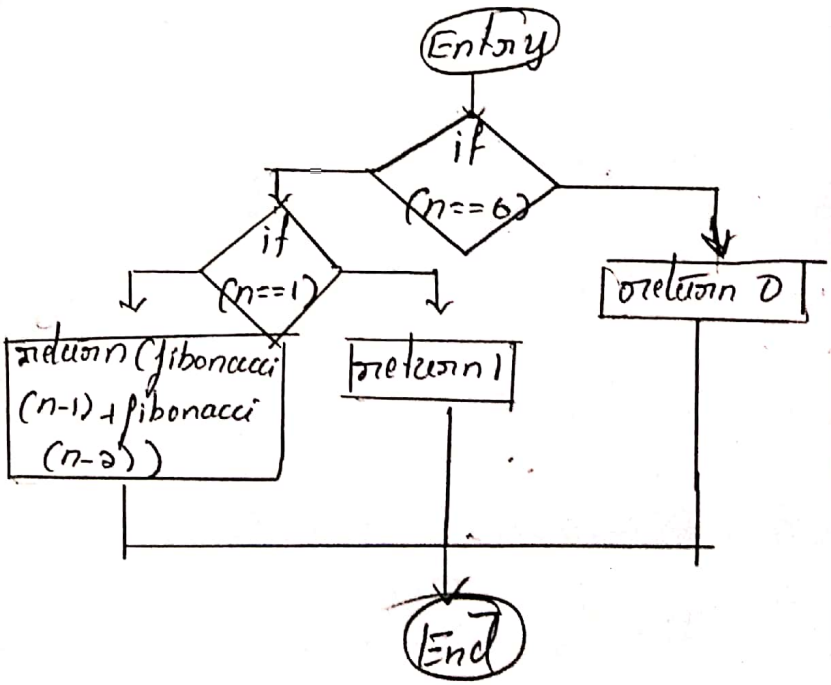
step1 : Start
step2 : Initialize i=0
step3 : Read n
step4 : Display Fibonacci series
for(i=1; i<=n; i++)
display fibonacci(i)
step5 : stop

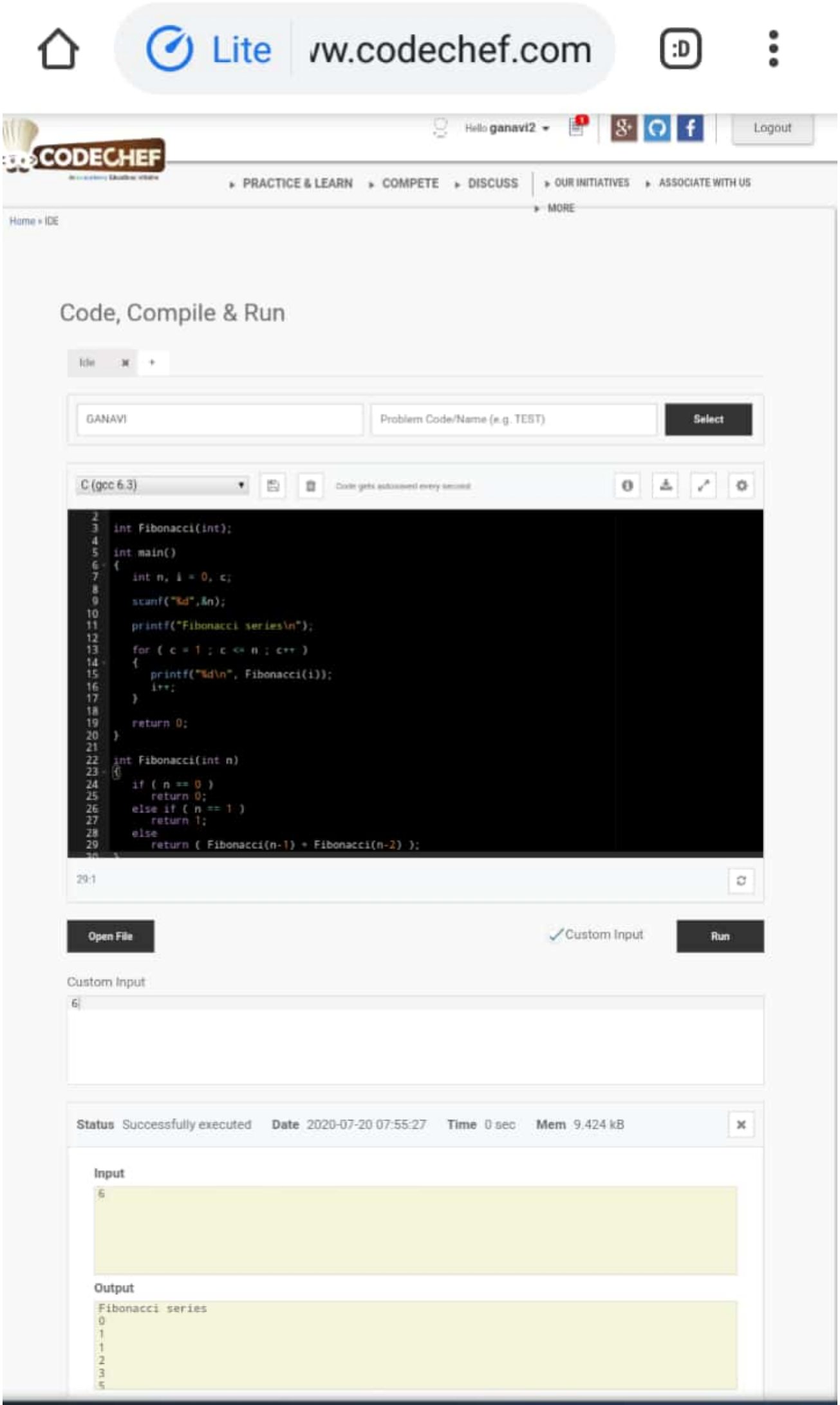
```
int Fibonacci (int n)
step1 : Entry
step2 : if (n==0)
          return 0
        else if (n==1)
          return 1
        else
          return (Fibonacci (n-1)+ Fibonacci(n-2))
step3 : End
```

Flowchart



int Fibonacci (int n)

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C (gcc 6.3)
int Fibonacci(int);
int main()
{
int n, i = 0, c;
scanf("%d",&n);
printf("Fibonacci series\n");
for (c = 1 ; c <= n ; c++)
{
printf("%d\n", Fibonacci(i));
i++;
}
return 0;
}
int Fibonacci(int n)
{
if (n == 0)
return 0;
else if (n == 1)
return 1;
else
return (Fibonacci(n-1) + Fibonacci(n-2));
29:1
Open File
Custom Input
Run
Custom Input
6
Status Successfully executed
Date 2020-07-20 07:55:27
Time 0 sec
Mem 9.424 kB
Input
6
Output
Fibonacci series
0
1
1
2
3
5
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