Algorithm

int main()

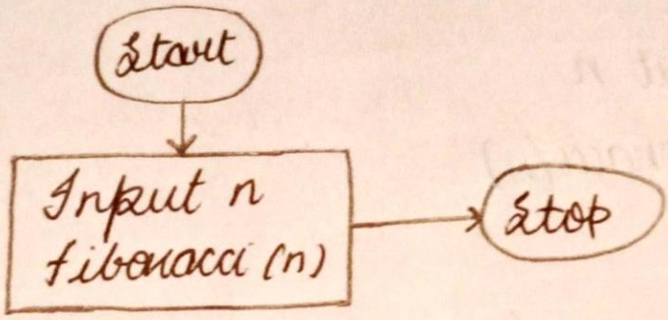
1. start
2. Input n
3. fibonacci(n)
4. stop

int fibonacci(int n)

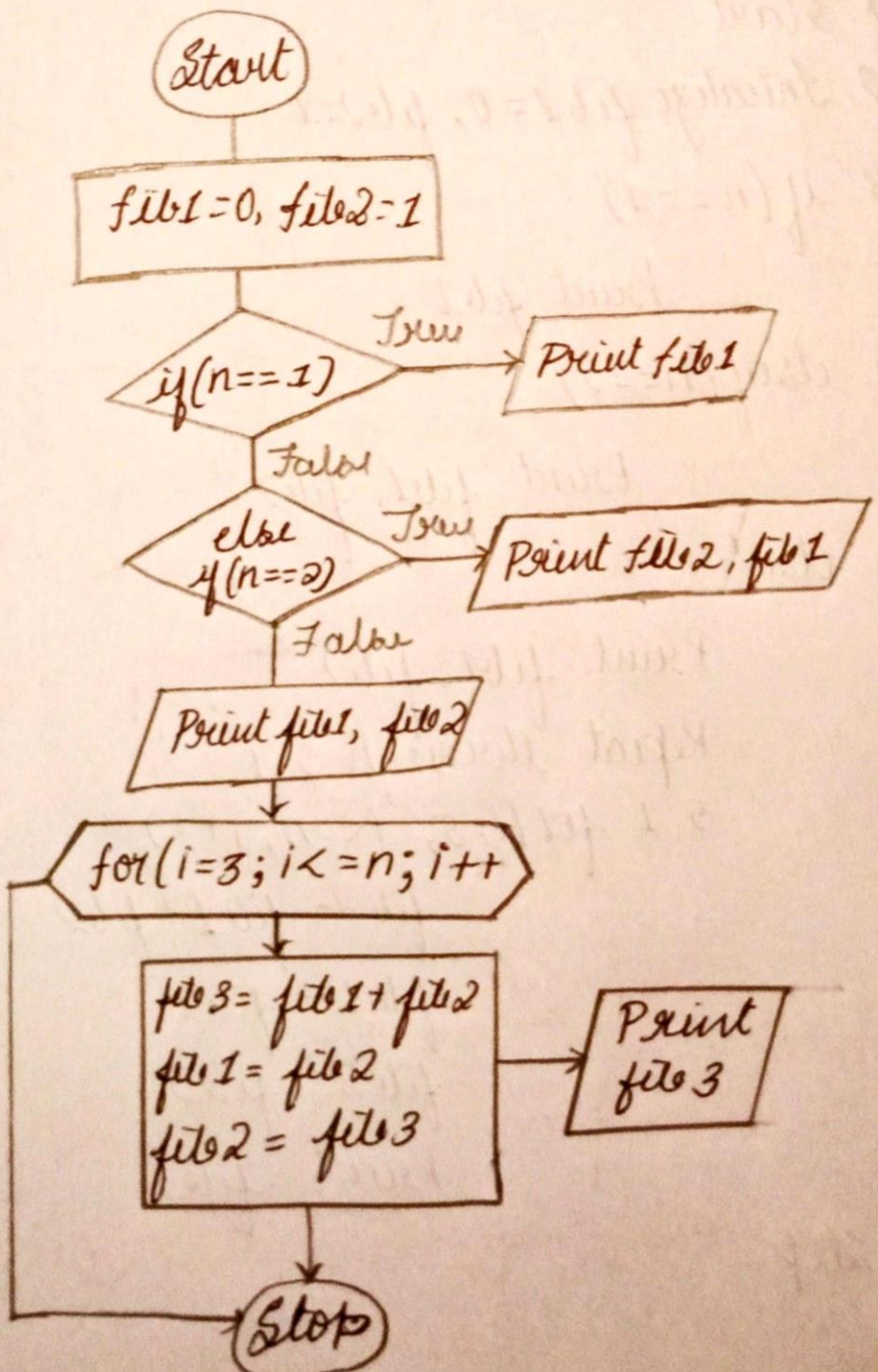
1. start
2. Intialize fib1 = 0, fib2 = 1.
3. if (n == 1)
   Print fib1
4. elseif (n == 2)
   Print fib1, fib2
5. else
   Print fib1, fib2
   Repeat through 5.1
   5.1 for (i = 3; i <= n; i++)
   fib3 = fib1 + fib2
   fib1 = fib2
   fib2 = fib3
   Print fib3
6. stop.

Flowchart

int main()



int fibonacci (int n)



C (gcc 6.3)

Code gets autosaved every second

```c
int fibonacci(int n)
{
    int i,fib1=0,fib2=1,fib3;
    if(n==1)
    {
        printf("%d\n", fib1);
    }
    else if(n==2)
    {
        printf("%d\t%d\t",fib1,fib2);
    }
    else
    {
        printf("%d\t%d\t",fib1,fib2);
        for(i=3;i<=n;i++)
        {
            fib3=fib1+fib2;
            fib1=fib2;
            fib2=fib3;
            printf("%d\t", fib3);
        }
    }
}
```

0:0

Open File

Custom

Custom Input

```
7
```

Status Successfully executed Date 2020-07-01 11:07:35 Time 0 sec Mem 9.424

Input

```
7
```

Output

```
Enter n upto which fibonacci series to be generated
0   1   1   2   3   5   8
```