

The sequence of Fibonacci numbers is defined by:

$$f_0 = 0, f_1 = 1, f_{i+1} = f_i + f_{i-1} \text{ for } i = 1, 2, \dots$$

Except for f_0 and f_1 , every element in the sequence is the sum of the previous two elements. It is easy to write down the first few elements of the sequence.

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55,

Given n , write a Java program to print a table for the first n Fibonacci numbers.

For example: If n is 7

Output is:

n	F(n)
0	0
1	1
2	1
3	2
4	3
5	5
6	8
7	13

The algorithm is:

- 0 Save the value of $f1$ (the current Fibonacci number) in $temp$
- 1 Add $f0$ to $f1$ and store the value in $f1$, the new Fibonacci number.
- 2 Store the value of $temp$ in $f0$ so that $f0$ will contain the previous Fibonacci number.
- 3 Print, and then repeat this process