

# Warmup

## Fibonacci series:

The Fibonacci series contains the numbers:

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, ....

where the first two numbers are 0 and 1 while the rest are the sum of 2 previous numbers.

$$0 + 1 = 1$$

$$1 + 1 = 2$$

$$1 + 2 = 3$$

$$2 + 3 = 5$$

$$3 + 5 = 8$$

...

So if F denotes Fibonacci function it follows following rule:

$F(0)=0$ ,  $F(1)=1$ ,  $F(n)=F(n-1)+F(n-2)$  for  $n>1$ .

where (n) gives nth element of the series.

## Problem:

Write a program to calculate and display nth Fibonacci number. The number n should be read as Console input and the output should be displayed back in console.

You can make use of the provided stub program to get started with.

Modify the program to display each of the numbers in the series as 0, 1, 1, 2, 3 ..... F(n).

## Note:

You can start with the stub program provided.