**6 kyu**

**N-th Fibonacci**

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C#

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I love Fibonacci numbers in general, but I must admit I love some more than others.

I would like for you to write me a function that when given a number (n) returns the n-th number in the Fibonacci Sequence.

For example:

NthFib(4) == 2

Because 2 is the 4th number in the Fibonacci Sequence.

For reference, the first two numbers in the Fibonacci sequence are 0 and 1, and each subsequent number is the sum of the previous two.

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**using System;**

**public class Fibonacci**

**{**

**public int NthFib(int n)**

**{**

**var phi = (1 + Math.Sqrt(5)) / 2;**

**return (int)Math.Round(Math.Pow(phi, n - 1) / Math.Sqrt(5));**

**}**

**}**

public static int NthFib(int n)

{

// Return the n-th number in the Fibonacci Sequence

if (n == 1) return 0;

int a = 0, b = 1;

int c = a + b;

for(int i =3; i<n; i++)

{

//Console.WriteLine(c);

a = b;

b = c;

c = a + b;

}

// Console.WriteLine(c);

return c;

}