

# Recursion - Fibonacci Series

Problem

Submissions

Leaderboard

Discussions

Write a program to find the  $n$ th term in the Fibonacci series using recursion. Note that the first 2 terms in the Fibonacci Series are 0 and 1.

## Input Format

Input consists of an integer.

## Constraints

NA

## Output Format

The output consists of an integer( $n$ th term of the Fibonacci series).

## Sample Input 0

5

## Sample Output 0

The term 5 in the Fibonacci series is 3

## Explanation 0

The fibonacci series is - 0, 1, 1, 2, 3, 5, 8, 13..., so the 5th term in this series is 3, that's why the answer will be 3.

## Sample Input 1

8

## Sample Output 1

The term 8 in the Fibonacci series is 13

## Explanation 1

The fibonacci series is - 0, 1, 1, 2, 3, 5, 8, 13..., so the 5th term in this series is 13, that's why the answer will be 13.

Difficulty: Medium

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C



```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int fib(int n){
7     if(n==0){
8         return 0;
9     }
10    else if(n==1){
11        return 1;
12    }
13    return fib(n-1)+fib(n-2);
14 }
15
16 int main() {
17
18     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
19     int n;
20     scanf("%d",&n);
21     printf("The term %d in the Fibonacci series is %d",n,fib(n-1));
22     return 0;
23 }
24
```

Line: 1 Col: 1

[Upload Code as File](#) ☐ [Test against custom input](#)

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Testcase 0

Testcase 1

**Congratulations, you passed the sample test case.**

Click the **Submit Code** button to run your code against all the test cases.

Input (stdin)

5

Your Output (stdout)

The term 5 in the Fibonacci series is 3

Expected Output

The term 5 in the Fibonacci series is 3