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Fibonacci number using recursion

You are a programmer who has been tasked with writing a C program to find the nth Fibonacci number using recursion. How would you approach this task?

Input:

an integer n

Constraints:

$0 \leq n \leq 30$

Output:

Print nth term of Fibonacci sequence (0,1,1,2,3,5.....). Indexing of Fibonacci terms starts from Zero, i.e., the first element will be said at position no. Zero(0) in the series.

Sample test Cases

C (gcc 4.8.3) ▼



▶ Compile & Run

O/P »

```
1  #include<stdio.h>
2
3  int fibonacci(int n){
4      // base case
5      if(n==0) return 0;
6      if(n==1 || n==2) return 1;
7
8      return (fibonacci(n-1) + fibonacci(n-2));
9  }
10
11 int main(){
12     int n;
13     scanf("%d",&n);
14     int ans = fibonacci(n);
15     printf("%d",ans);
16 }
17
```

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