

```
def fib(n):  
    if n <= 1:  
        return n  
    return fib(n-1) + fib(n-2)  
  
print(fib(10))
```

```
function fib(n) {  
    if (n <= 1) return n;  
    return fib(n - 1) + fib(n - 2);  
}  
console.log(fib(10));
```

```
public class Main {  
    static int fib(int n) {  
        if (n <= 1) return n;  
        return fib(n-1) + fib(n-2);  
    }  
    public static void main(String[] args) {  
        System.out.println(fib(10));  
    }  
}
```

```
#include <stdio.h>
int fib(int n) {
    if (n <= 1) return n;
    return fib(n-1) + fib(n-2);
}
int main() {
    printf("%d\n", fib(10));
    return 0;
}
```

```
#include <iostream>
using namespace std;
int fib(int n) {
    if (n <= 1) return n;
    return fib(n-1) + fib(n-2);
}
int main() {
    cout << fib(10) << endl;
}
```

```
using System;
class Program {
    static int Fib(int n) => n <= 1 ? n : Fib(n-1) +
Fib(n-2);
    static void Main() => Console.WriteLine(Fib(10));
}
```

```
package main
import "fmt"
func fib(n int) int {
    if n <= 1 {
        return n
    }
    return fib(n-1) + fib(n-2)
}
func main() {
    fmt.Println(fib(10))
}
```

```
func fib(_ n: Int) -> Int {  
    if n <= 1 { return n }  
    return fib(n-1) + fib(n-2)  
}  
print(fib(10))
```

```
fun fib(n: Int): Int = if (n <= 1) n else fib(n-1) +  
fib(n-2)  
  
fun main() {  
    println(fib(10))  
}
```

```
def fib(n)
    return n if n <= 1
    fib(n-1) + fib(n-2)
end

puts fib(10)
```

```
<?php
function fib($n) {
    if ($n <= 1) return $n;
    return fib($n-1) + fib($n-2);
}
echo fib(10);
?>
```

```
fib <- function(n) {  
  if (n <= 1) return(n)  
  fib(n-1) + fib(n-2)  
}  
cat(fib(10), "\n")
```

```
sub fib {  
    my $n = shift;  
    return $n if $n <= 1;  
    return fib($n-1) + fib($n-2);  
}  
print fib(10), "\n";
```

```
object Main extends App {  
    def fib(n: Int): Int = if (n <= 1) n else fib(n-1)  
+ fib(n-2)  
    println(fib(10))  
}
```

```
defmodule Fib do
  def calc(0), do: 0
  def calc(1), do: 1
  def calc(n), do: calc(n-1) + calc(n-2)
end

IO.puts(Fib.calc(10))
```

```
fn fib(n: u32) -> u32 {
    match n {
        0 | 1 => n,
        _ => fib(n - 1) + fib(n - 2),
    }
}

fn main() {
    println!("{} {}", fib(10));
}
```

```
function fib(n)
    n <= 1 && return n
    fib(n-1) + fib(n-2)
end
println(fib(10))
```

```
fib 0 = 0
fib 1 = 1
fib n = fib (n-1) + fib (n-2)
main = print (fib 10)
```

```
function fib(n)
    if n <= 1 then return n end
    return fib(n-1) + fib(n-2)
end
print(fib(10))
```

```
int fib(int n) => n <= 1 ? n : fib(n-1) + fib(n-2);  
void main() {  
    print(fib(10));  
}
```

```
#import <Foundation/Foundation.h>
int fib(int n){return n<=1?n:fib(n-1)+fib(n-2); }
int
main() {@autoreleasepool{NSLog(@"%@",fib(10));} return
0; }
```

```
-module(fib).  
-export([calc/1]).  
calc(0) -> 0;  
calc(1) -> 1;  
calc(N) -> calc(N-1) + calc(N-2).
```

```
let rec fib n = if n <= 1 then n else fib(n-1) +  
fib(n-2)  
[<EntryPoint>]  
let main _ =  
    printfn "%d" (fib 10)  
    0
```

```
(define (fib n)
  (if (<= n 1)
      n
      (+ (fib (- n 1)) (fib (- n 2)))))
(display (fib 10)) (newline))
```

```
(defun fib (n)
  (if (<= n 1) n (+ (fib (- n 1)) (fib (- n 2)))))
(print (fib 10))
```

```
fib(0, 0).  
fib(1, 1).  
fib(N, F) :-  
    N > 1,  
    N1 is N - 1,  
    N2 is N - 2,  
    fib(N1, F1), fib(N2, F2),  
    F is F1 + F2.
```

```
IDENTIFICATION DIVISION.  
PROGRAM-ID. FIB.  
DATA DIVISION.  
WORKING-STORAGE SECTION.  
01 N PIC 9(2) VALUE 10.  
PROCEDURE DIVISION.  
DISPLAY FUNCTION FIBONACCI(N) .  
STOP RUN.
```

```
with Ada.Text_IO; use Ada.Text_IO;
function Fib(N : Integer) return Integer is
begin
  if N <= 1 then return N;
  else return Fib(N-1) + Fib(N-2);
  end if;
end Fib;
procedure Main is begin
  Put_Line(Integer'Image(Fib(10)));
end Main;
```

```
fib := [:n | n <= 1 ifTrue:[n] ifFalse:[(fib  
value:(n-1)) + (fib value:(n-2))]].  
Transcript show: (fib value:10); cr.
```

```
proc fib(n: int): int =  
    if n <= 1: n  
    else: fib(n-1) + fib(n-2)  
echo fib(10)
```

```
recursive function fib(n) result(f)
    integer :: n, f
    if (n <= 1) then
        f = n
    else
        f = fib(n-1) + fib(n-2)
    end if
end function fib
print *, fib(10)
```

```
(define (fib n)
  (if (<= n 1)
      n
      (+ (fib (- n 1)) (fib (- n 2)))))
(display (fib 10)) (newline))
```

```
let rec fib n = if n <= 1 then n else fib (n-1) +
fib (n-2)
let () = print_int (fib 10)
```

```
program Fib;
function F(n: integer): integer;
begin
  if n <= 1 then F := n
  else F := F(n-1) + F(n-2);
end;
begin
  writeln(F(10));
end.
```

```
entity fib is end;
architecture Behavioral of fib is
function fib(n: integer) return integer is
begin
  if n <= 1 then return n;
  else return fib(n-1) + fib(n-2);
  end if;
end;
begin
end;
```

```
def fib(n) { n <= 1 ? n : fib(n-1) + fib(n-2) }  
println fib(10)
```

```
proc fib {n} {
    if {$n <= 1} {return $n}
    expr {[fib [expr {$n-1}]] + [fib [expr {$n-2}]]}
}
puts [fib 10]
```

+ [ --->++< ] >+ .+++++++.++++++..+++ . [ ->++++< ] >+ .-  
----- .+++++++.-----.- [ --->+< ] >--- .++  
+ .----- .----- .