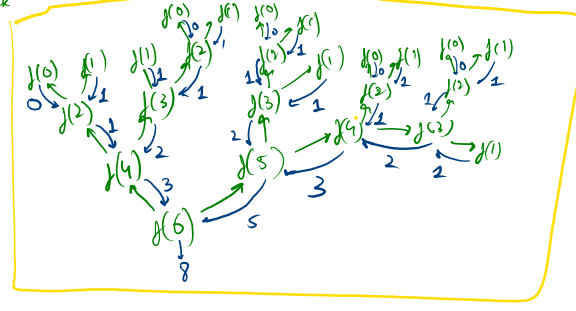


0 1 1 2 3 5 8 13 ...

- 1) Fibbon → My yellow frog will do that work correctly
- 2) Expectation → I will do my work correctly



Return n<sup>th</sup> fibbon no.



$f(n) : \text{number}$

BASE  $\begin{cases} \text{if}(n==0) \text{ return } 0 \\ \text{if}(n==1) \text{ return } 1 \end{cases}$

let  $fnm2 = f(n-2)$   
let  $fnm1 = f(n-1)$

POST  $\begin{cases} \text{let ons} = fnm2 + fnm1 \\ \text{return ons} \end{cases}$

```
function f(n: number): void {
  if(n == 0) return;
  console.log(n);
  f(n-1);
  console.log(n);
}
```

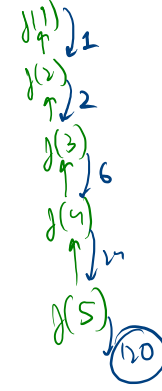
Work for area  
// call  
// work in area  
// call  
// work post area  
// return

```
function f(n: number): void {
  if(n == 0) return;
  console.log(n);
  f(n-1);
  console.log(n);
}
```

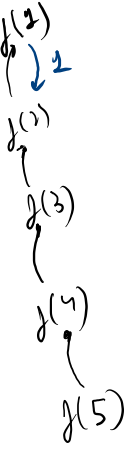
3	
2	
1	
0	
1	0 1 2 3
2	0 1 2 3 4
3	0 1 2 3 4 5
4	0 1 2 3 4 5 6
5	0 1 2 3 4 5 6 7

5  
4  
3  
2  
1

n Factorial

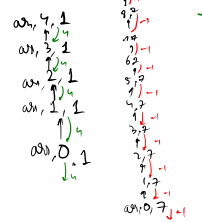


fact(n): number  
if(n==2) return 1  
let nm1 = fact(n-1)  
return n \* nm1;



7 4 3 2 1 3 2 5 6 5

What is the post around of n



func(arr, i, n)  
if(i == arr.length) return -1  
if(arr[i] == n) return i  
let next = func(arr, i+1, n)  
return next;



func(arr, i, n): number  
if(i == arr.length) return -1  
let next = func(arr, i+1, n);  
if(arr[i] == n) return i  
return next