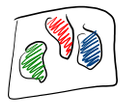
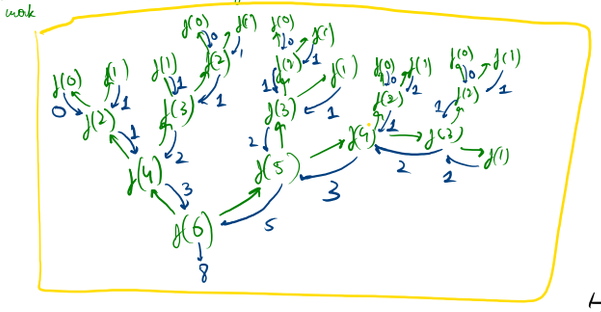
0 1 1 2 3 5 8 13 ...

1) Faith -> My fellow frog will do their work correctly
2) Expectation -> I will do my work correctly



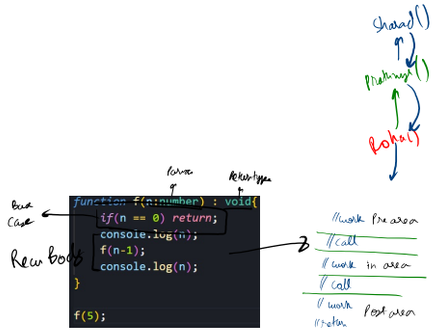
Return nth fibonacci no.

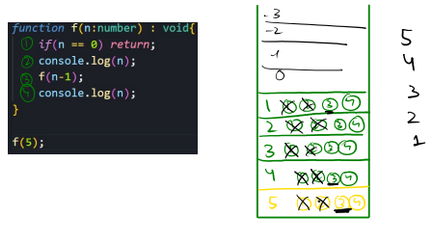


```
f(n): number
  if(n==0) return 0
  if(n==1) return 1
  let fnm2 = f(n-2)
  let fnm1 = f(n-1)
  let ans = fnm2 + fnm1
  return ans
}
```

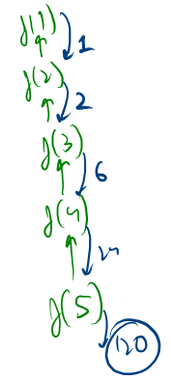
BASE

POST





n Factorial

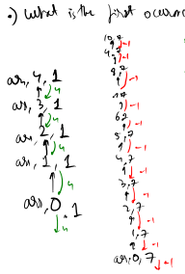


```
fact(n): number {
  if(n==1) return 1
  let nm1f = fact(n-1)
  return n * nm1f;
}
```

4 4 3 2 1 3 2 5 6 5

0 1 2 3 4 5 6 7 8 9

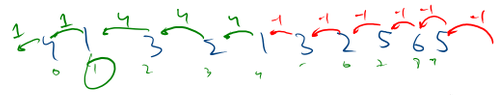
1) What is the first occurrence of n




```
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;
}
```

work

flow



```
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
}
```

n=1