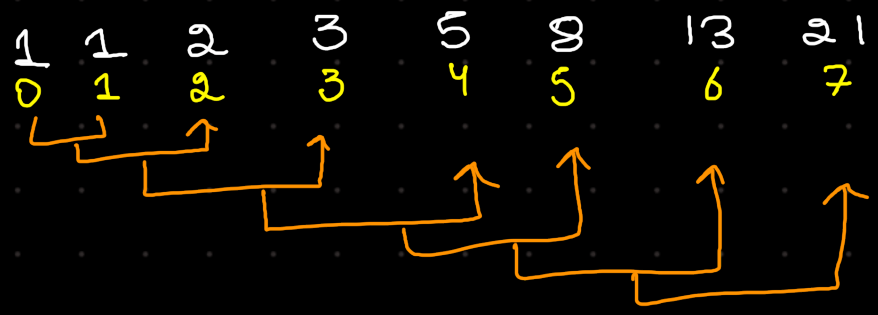
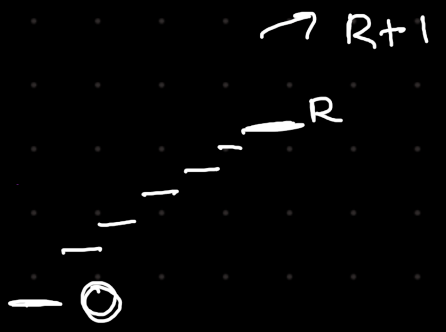
Fibonicci Series

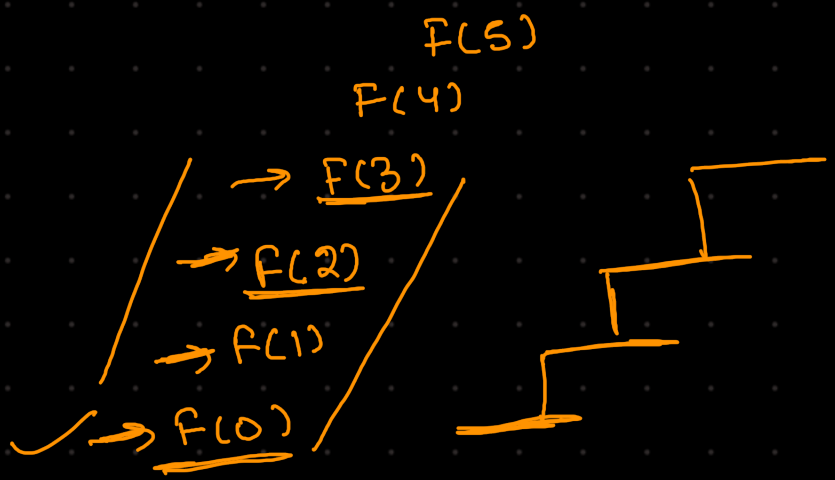




① Base case ⇒ F(0) = 1

② Assume F(R) ⇒ true

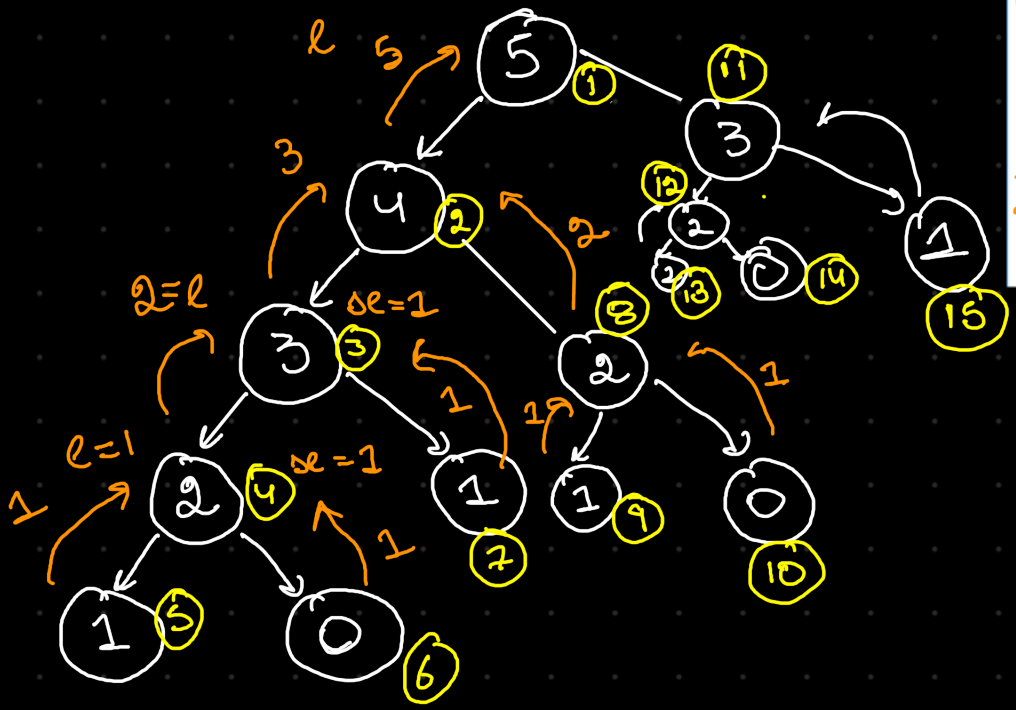
$0 \le i \le R$



last =

second_last =

$$F(\underbrace{n}_{R+1}) = F(\underbrace{n-1}_{R}) + F(\underbrace{n-2}_{R-1})$$



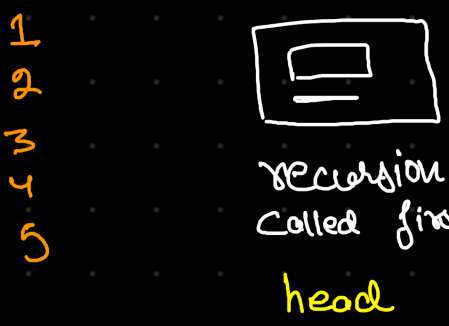

```python
def fib(n):
    # print(n)
    if(n==0):
        return 1
    if(n==1):
        return 1

    last = fib(n-1)
    secondLast = fib(n-2)

    ans = last + secondLast
    return ans
```

Q: Write a program for a given number n.

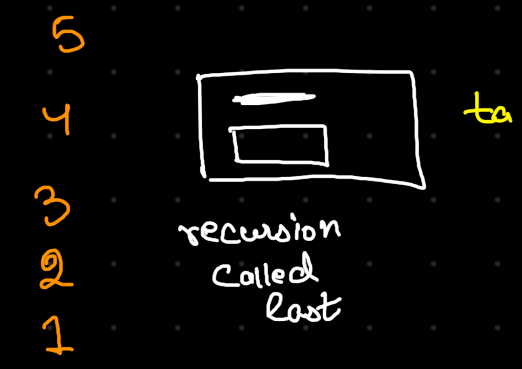
1] To print 1 to N.

2] To print N to 1.

1 to N



N to 1



Assignment

Q-1 Sum of digits of a number

Q-2 Power of a number

1. Base case
2. Recursive call
3. Your calculation