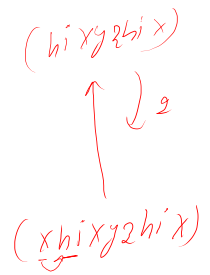
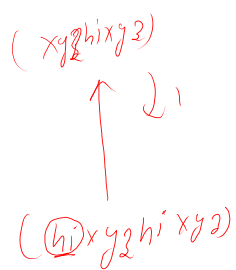
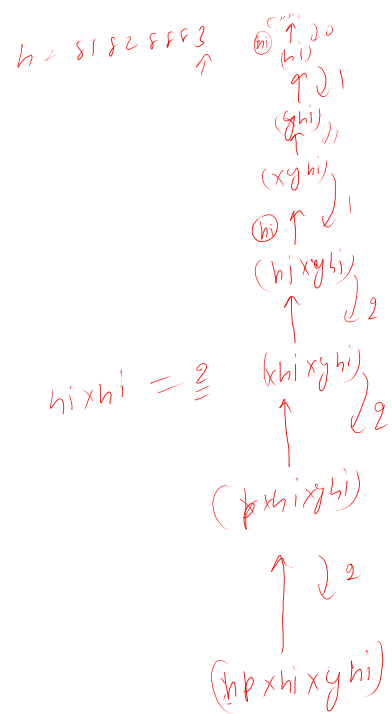
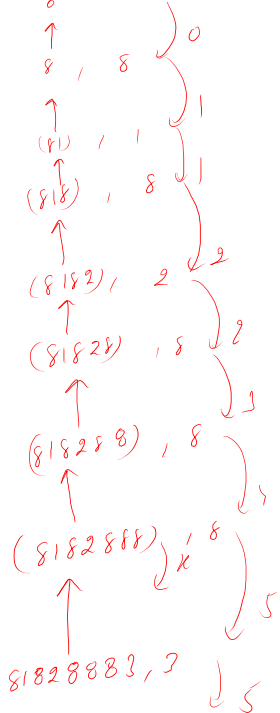


```
def count8(num):
    if num == 0:
        return 0

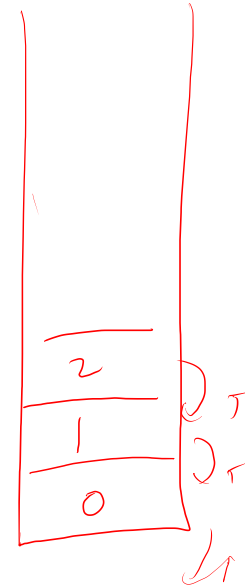
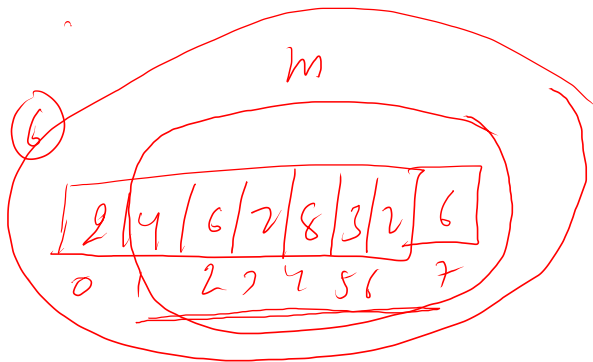
    counts = count8(num // 10)
    digit = num % 10

    return counts if (num % 10 != 8) else counts + 1
```



```
def findData(arr, idx, data):
    if idx == len(arr):
        return False
    return arr[idx] == data or findData(arr, idx + 1, data)
```

f || T

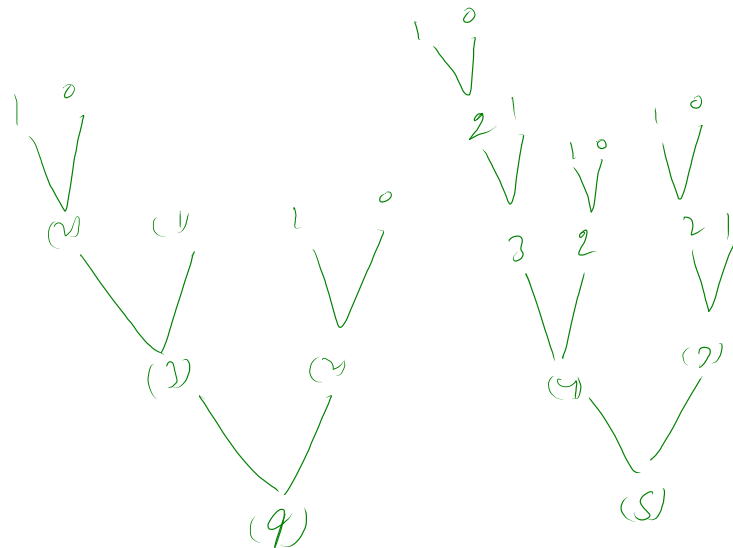


$$fib(n) = fib(n-1) + fib(n-2)$$

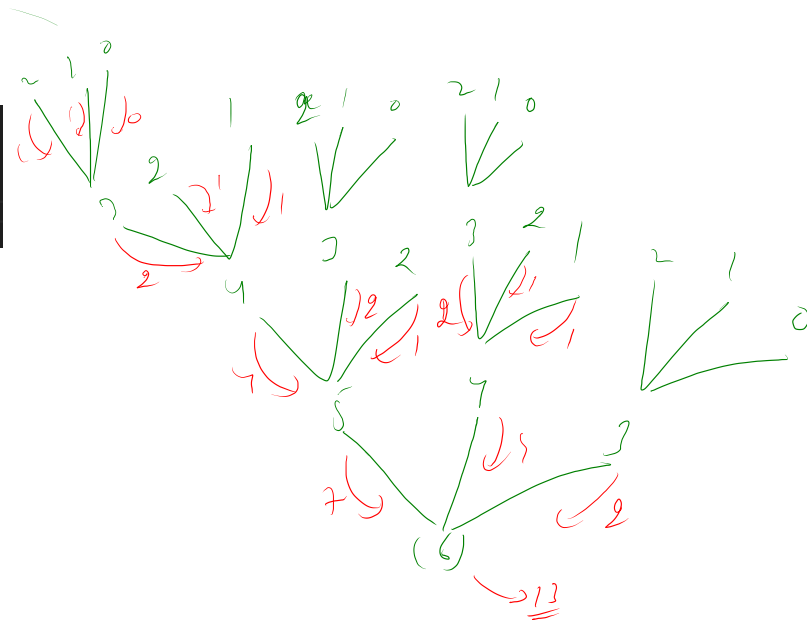
```
def fibo(n):
    if n <= 1:
        return n
    return fibo(n - 1) + fibo(n - 2)
```

Tribonic?

(6)

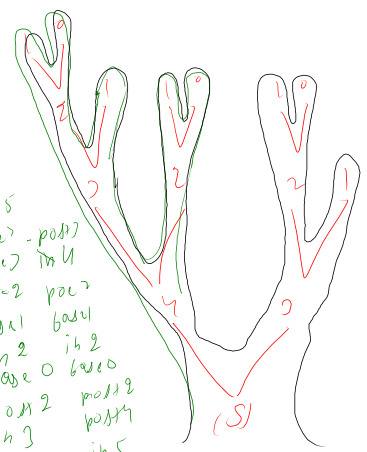


```
def tribonic(n):
    if n <= 2:
        return n if n <= 1 else 1
    return tribonic(n - 1) + tribonic(n - 2) + tribonic(n - 3)
```



3, 1, 1
5, 1, 1

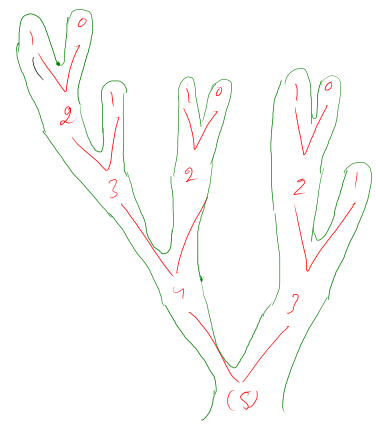
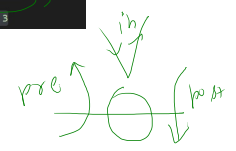
pre 5
post - post
pre 3 in 1
pre 2 post
base 1 base
in 2 in 2
base 0 base
post 2 post
in 3 post
base in 5



```
def experiment(n):
    if n <= 1:
        print("base: ", n)
        return n

    count = 0
    print("pre: ", n)
    count += experiment(n - 1)

    print("in: ", n)
    count += experiment(n - 1)
    print("post: ", n)
    return count + 3
```



pre 5
pre 3
pre 2
base 1
in 2
post 0
post 2
in 3
base
post 3
in 5
post 2
base
in 3
base
post 2

post 7
in 5
pre 3
pre 2
base 1
in 2
base
post 2
in 3
base
post 3
post 5