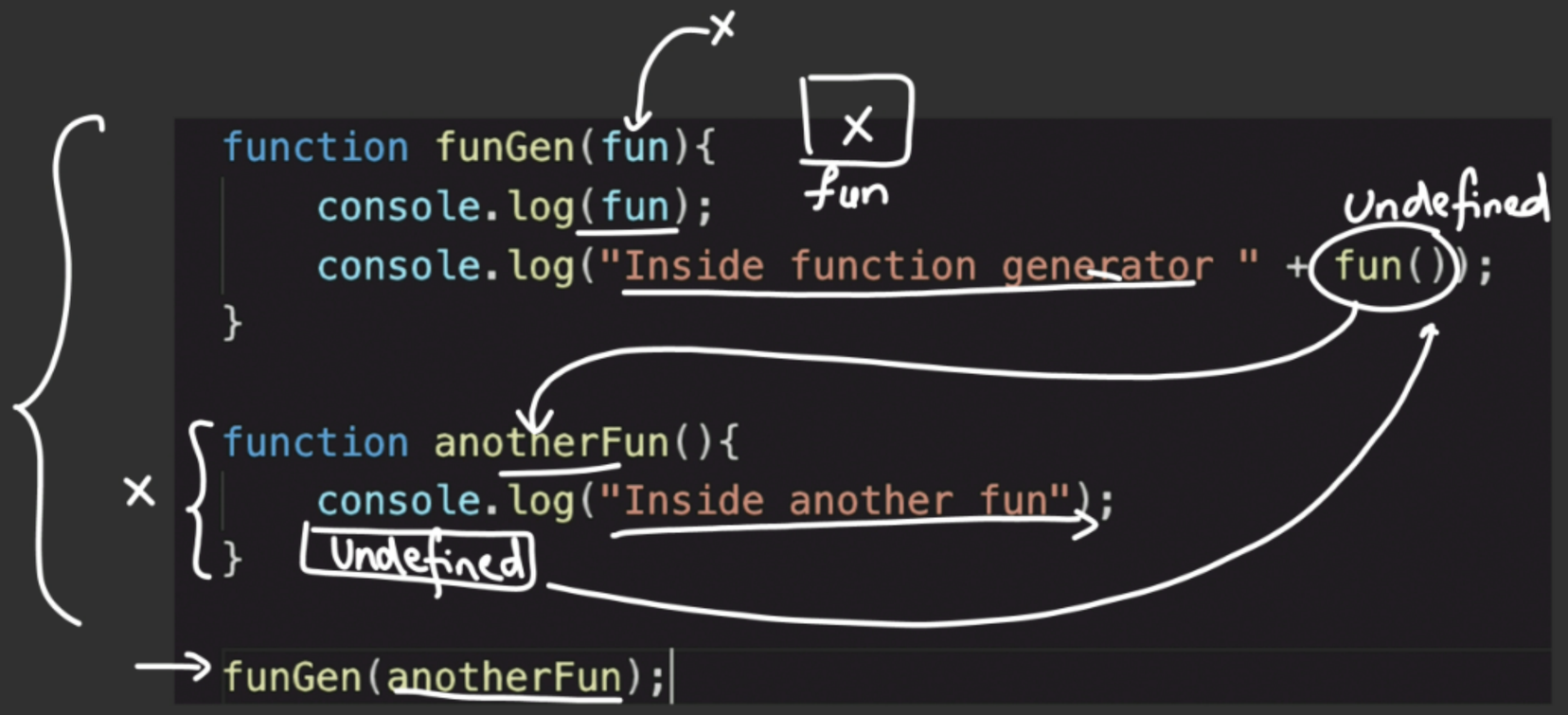
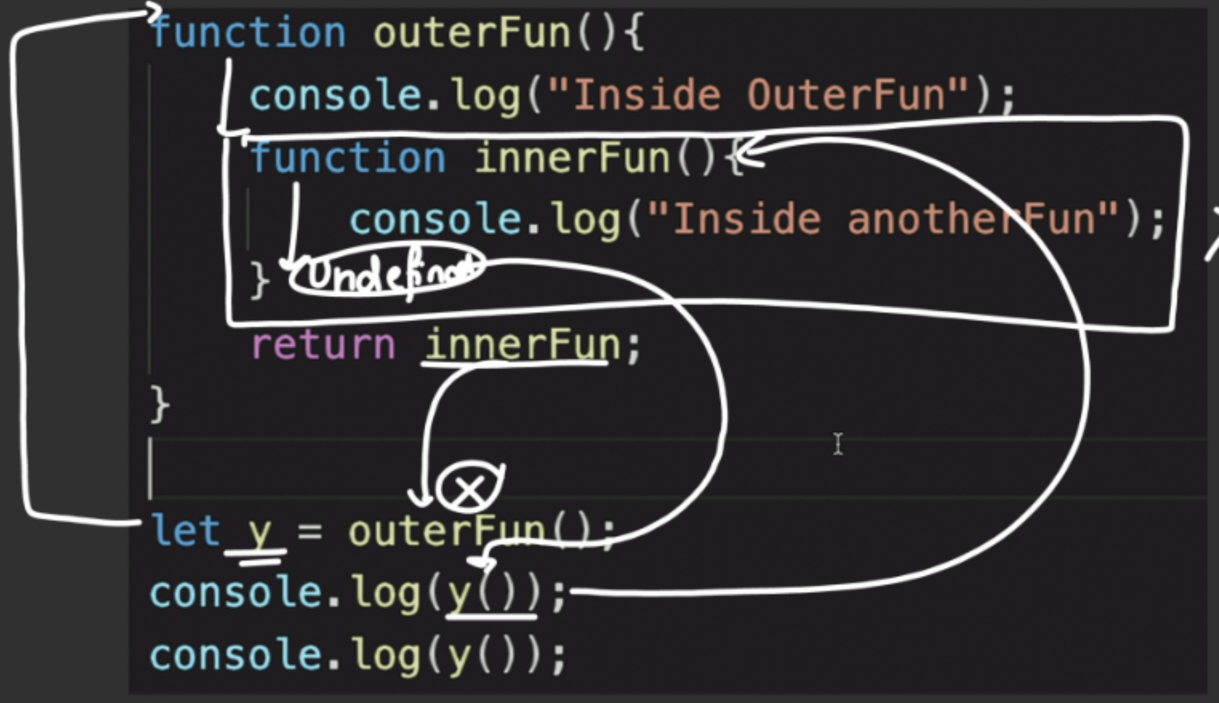



```
function funGen(fun){
    console.log(fun);
    console.log("Inside function generator " + fun());
}

function anotherFun(){
    console.log("Inside another fun");
}

funGen(anotherFun);
```

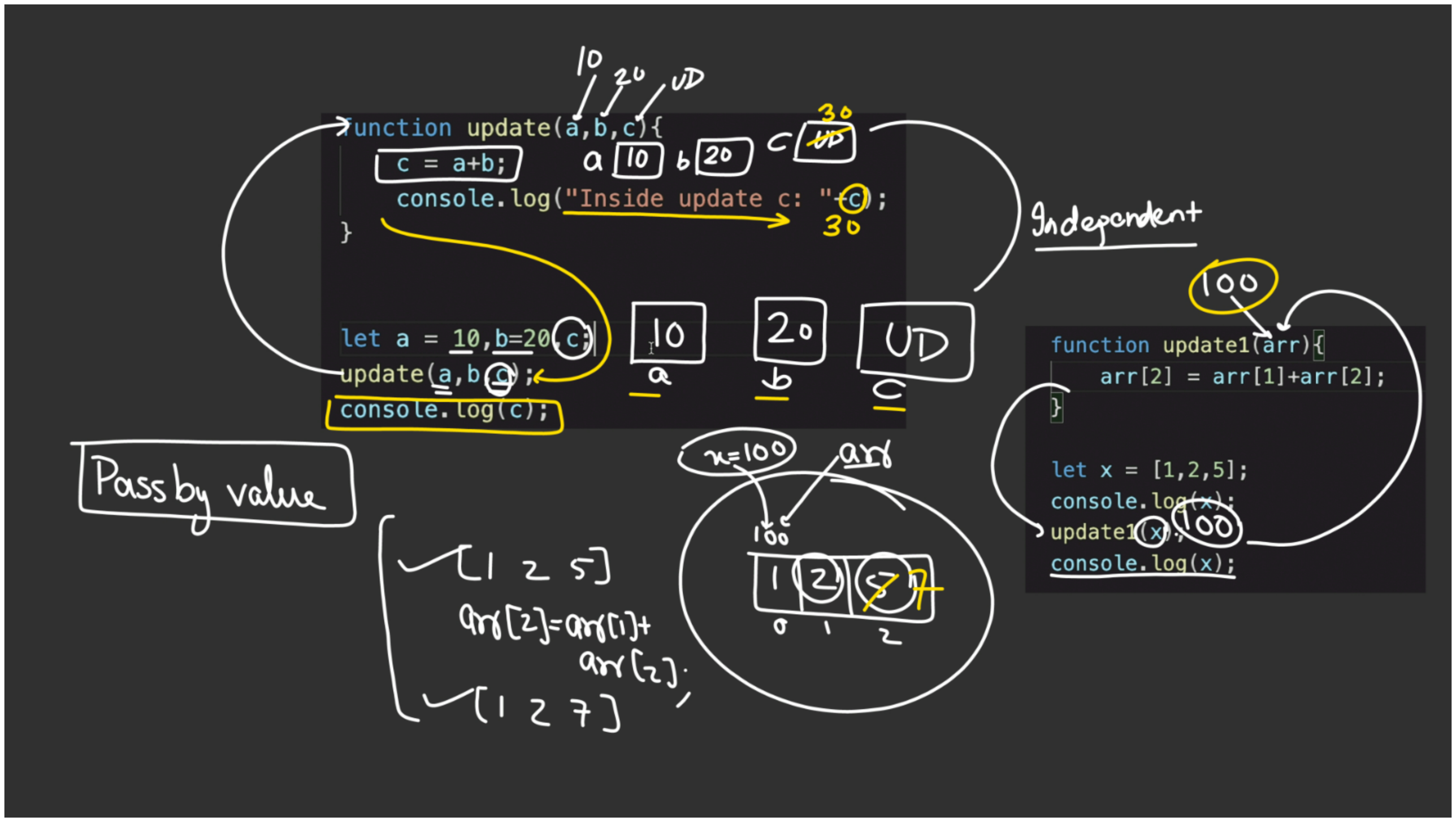
let x = 10 + add(10,20);

→ Inside another fun

→ Inside function generator undefined



- IF ✓
- IAF ✓
- UD ✓
- IAF
- UD


10
20
UD
function update(a,b,c){
c = a+b;
a 10 b 20 c UD
30
console.log("Inside update c: "+c);
30
}
let a = 10,b=20,c;
update(a,b,c);
console.log(c);
10
a
20
b
UD
c
Pass by value
[1 2 5]
arr[2]=arr[1]+arr[2];
[1 2 7]
x=100
arr
100
1
2
7
0
1
2
Independent
100
function update1(arr){
arr[2] = arr[1]+arr[2];
}
let x = [1,2,5];
console.log(x);
update1(x);
100
console.log(x);

CLOSURE

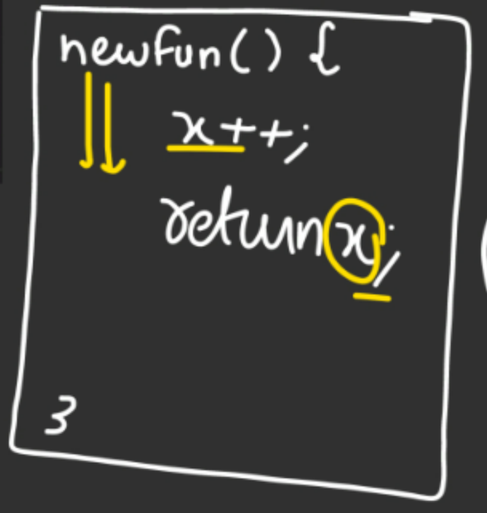
```
function FunGen(){
    let x = 0;
    function newFun(){
        x++;
        return x;
    }

    return newFun;
}

let fun1 = FunGen();
console.log(fun1()); 1
console.log(fun1()); 2
console.log(fun1()); 3
```

fun2 = FunGen();

fun2() → 1

fun2() → 2

fun1() → 4



```
function FunGen(){
    let x = 0;
    function newFun(){
        x++;
        function newerFun(){
            x++;
            return x;
        }
        return newerFun;
    }
    return newFun;
}
let fun1 = FunGen(); // Yeh func
let fun2 = FunGen(); // Yeh func
let fun11 = fun1(); //  Yeh func
let fun12 = fun1(); //  Yeh func

console.log(fun11()); // 2 3 2
console.log(fun11()); // 4 4 3
console.log(fun12()); // 2 3 2
console.log(fun12()); // 4 4 3
console.log(fun11()); // 6 5 4
```