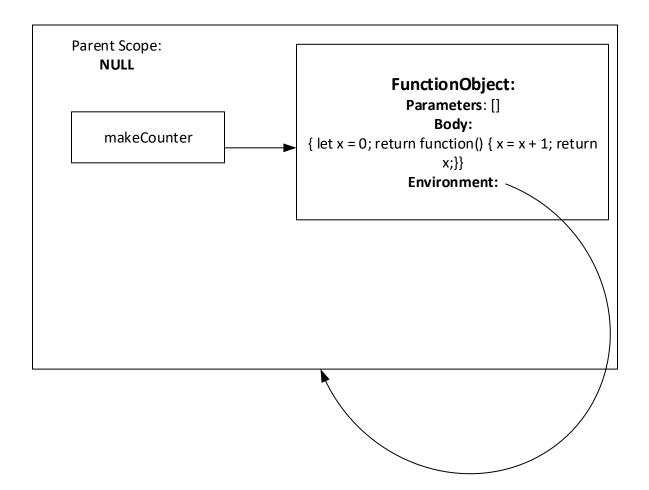


We get recursion "for free" because if loopSumTo were to call loopSumTo, environment lookup would fail in loopSumTo's scope, and would try all parent environments in order until it resolved the variable "loopSumTo". It would find it in the initial environment.

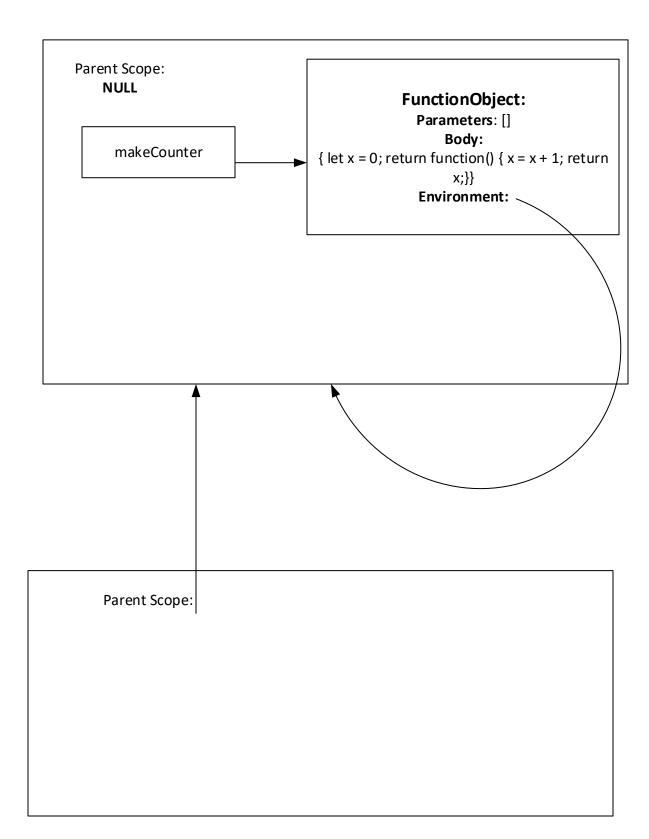
let makeCounter = function() { let x = 0; return function() { x = x + 1; return x; }; }



```
let makeCounter = function() { let x = 0; return function() { x = x + 1; return x; };
}
```

In the process of evaluating the call to makeCounter() in

let counter = makeCounter();



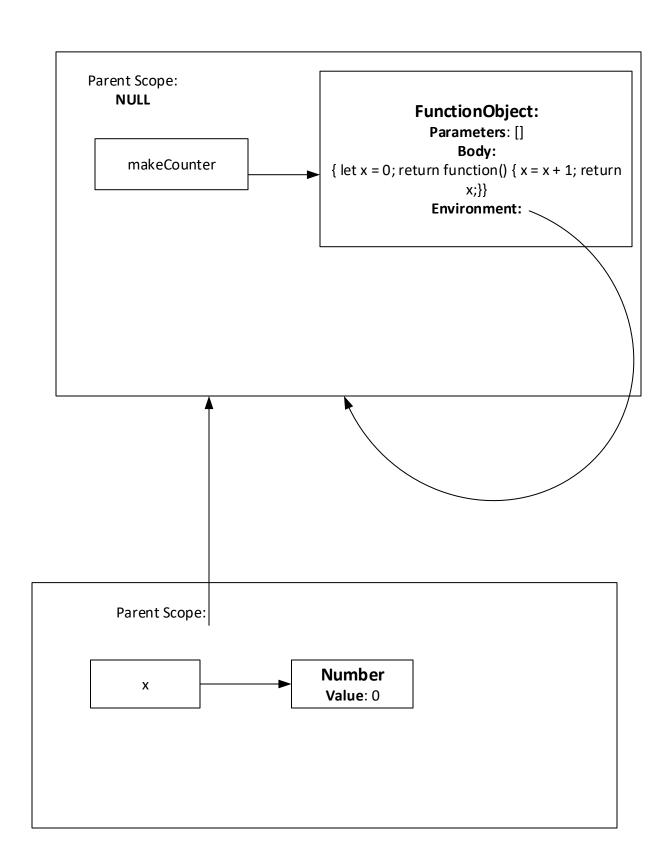
let makeCounter = function() { let x = 0; return function() { x = x + 1; return x; }; }

In the process of evaluating the call to makeCounter() in

let counter = makeCounter();

We've executed the first line of the makeCounter function,

Let x = 0;



let makeCounter = function() { let x = 0; return function() { x = x + 1; return x; }; } let counter = makeCounter();

