;;Constructor: make new objects

;;leaf constructor for simple binary tree

(define leaf

(lambda (x) x))

(define interior-node2

(lambda (symbol tree1 tree2)

(append (cons symbol (list tree1)) (list tree2))))

;;interior node will a list with three things inside (a symbol and 2 binary tree)... => list can take a lot of parameters and turn them into a list

(define interior-node

(lambda (symbol tree1 tree2)

(list symbol tree1 tree2)))

;; check if the leaf is a number ==> boolean true or false

(define leaf?

(lambda (x)

(number? x)))

;;left-son

(define lson

(lambda (binTree)

(car(cdr binTree))))

;;right-son

(define rson

(lambda (binTree)

(car(cdr(cdr binTree)))))

;;contents-of only gets the symbol

(define contents-of

(lambda (binTree)

(if (leaf? binTree)

binTree

(car binTree))))