Check for index i

the i+1

(= i (vecter-length vec)) frue)

(: Vector-eq?: (Vector of Integer)

(Vector of Integer)

Boolean)

(define (Vector-eq? vecl vec2)

(local
{
 (: helper: (Vector of Integer) (Vector of Integer)

Integer -> Boolean)

(define (helper rector) vector 2 jdx)

fals

[and (=idx (vector-length rector I)) 2nd (= id (vector lergth vector 2)) #t] I (=idx (rector-length rector) #f3 3re [(= idx (rector-length rector2) #f] lesse (if (= (vector-ref vector) idx) (Vector-ref vector? idx)) (helper vector / vector 2 (+idx1)) false) S114 (helper vecl vec2 0)) Stort indo

(Yector-length vcc)

(vector-length vec2) Vecl idx == (vector-length vec 2) > t (vector-length

Check expect for HW10

(define my-vec (vecter 1 234))

(add-one! my-vec)

(checkexpect my-vec (vecter 2345))

(lest)

Recurrence for the helper function

T(n) = T(n-1) + O(1)Constant

What 75 n? n- Input size (len-i+1) Number of elements to be scanned n = (vector-length input-vector)
- idx [Number of elements
on the right side] Recurrence for the helper function

is T(n) = T(n-1) + C T(n) = O(n)Time - (omplexish of add-one T(vector-length input-vector)length of input-vector -O)O(length of input-vector)

Final exam

Memis phase-longitude _ Not allowed (Hemis phase-longitude _ Not allowed (Hemispher-latitude)

(match hem) [(Hemsphose lo la) [

(mutch * (hem / hem 2) [(Hemisplan Ial (0)) (Hemispela la 2 102)

(begin (vector-set) vec i

(+ (vector-ret vec i) 1)

(add-one-hulper | (vec(+i))).

(begin (vector-set) vec i

(+ (vector-ret vec i) 11)

(define j (+ i 2))

(add-one helpwi)
vac j)

+1