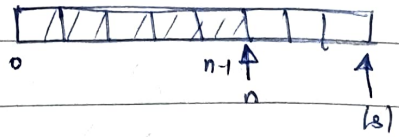


INTERPRETER FOR EXPLICIT REF

(define store-extend

;; a store is a pair
 (s, n)



(define (newref store)

n : size of store $0 \leq n \leq |s|$

(define (store-extend store v)

(match-let ([list s n] store])

(if (= n |s|)

(error 'store-extend "out of memory!")

(cases storable v

[loc (m) (if >

(begin

(vector-set! s n v)

(list s (add1 n))...)

;;

(define (store-get store m)

(ifmat (let ([list s n])

(if >= m n)

(error 'store-get "ref. out of bounds!" m)

(else

(vector-ref s m)))

(define *global-store (make-vector 0 0) 0)

cases ast of a.

[num (n) n]

[bool (a) b]

~~[getref (r) (store-get *global-store* r)]~~

[getref (e)

(let (C r (eval-ast e env))]

(store-get *global-store* r)]

(seq cas)

STORE PASSING

(define (eval-ast a env store)

(cases ast a

"

(if (test then else)

(match-let ((list val newsto)

(evalast test env sto)]])

IMPLICIT REFERENCES

②

expval = num + bool + proc

storeval = expval.

store = L → storeval.

env = id → denval.

denval = L

①

expval = num + bool + proc

env = id → expval.

c!

|

③

Den.val = L + proc.