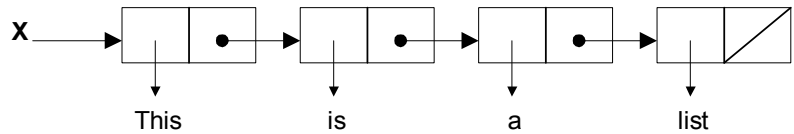


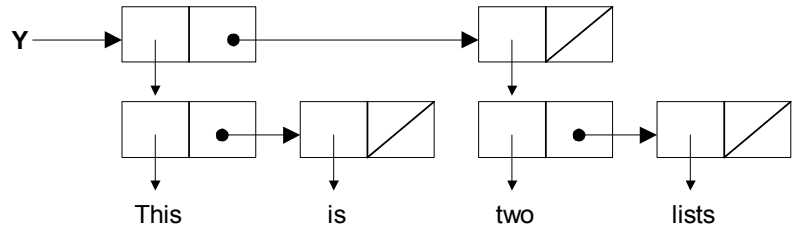
LISP

Data Structures

(setq X `(This is a list))

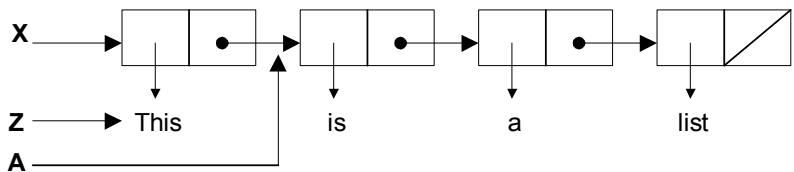


(setq Y `((This is)(two list)))



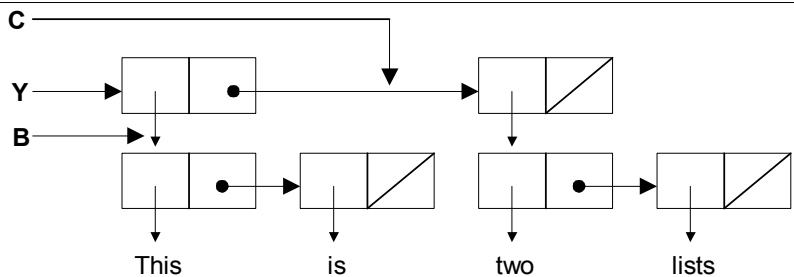
(setq Z (car X))

(setq A (cdr X))

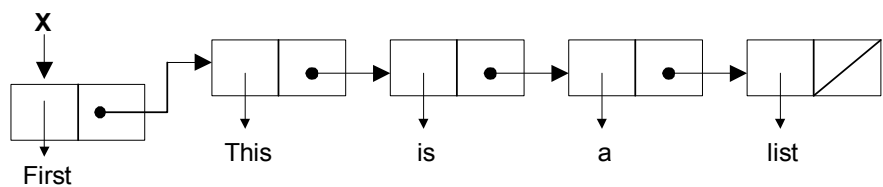


(setq B (car Y))

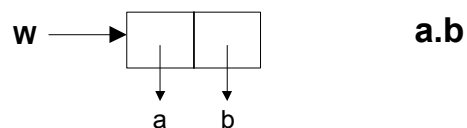
(setq C (cdr Y))



(setq X (cons 'First X))



(setq W (cons `a `b))

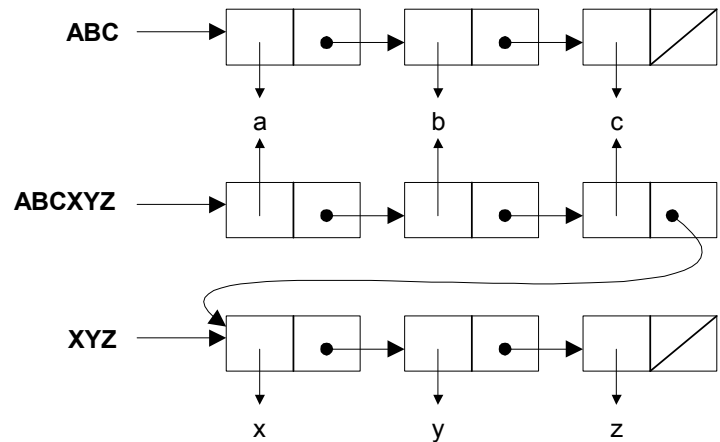


(setq ABC '(a b c))

(setq XYZ '(x y z))

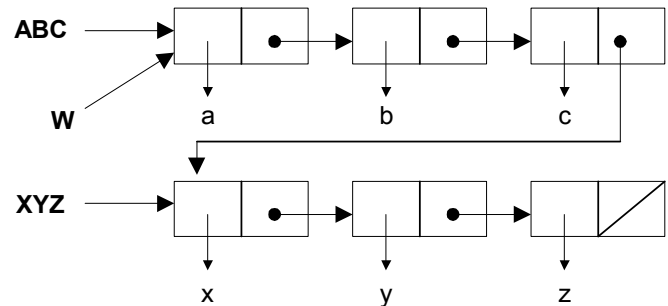
(setq ABCXYZ (APPEND ABC XYZ))

**APPEND does not change ABC or XYZ*



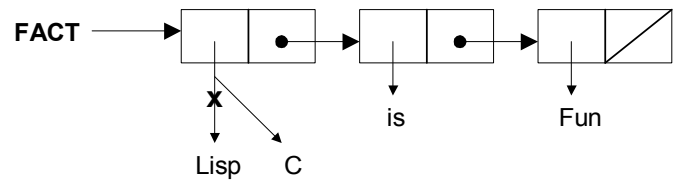
(setq W (NCONC ABC XYZ))

**NCONC will change the first list.*

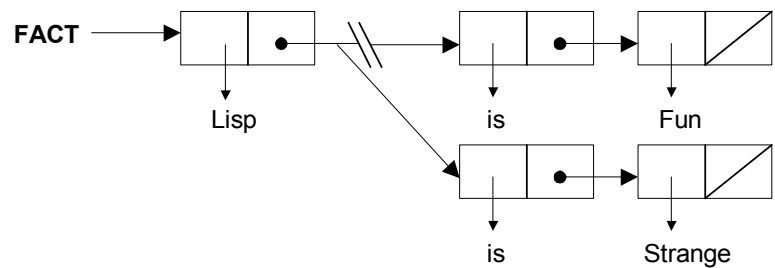


(setq FACT `(Lisp is Fun))

(RPLACA FACT 'C)



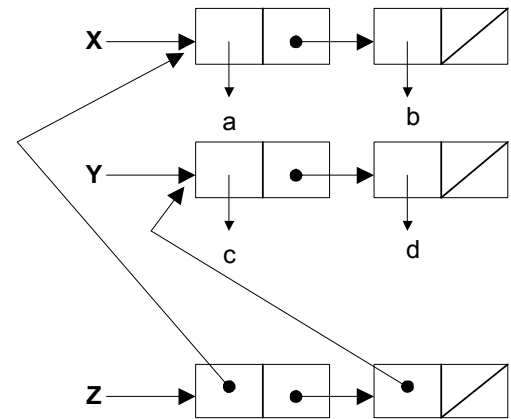
(RPLACD FACT `(is Strange))



(setq X `(a b))

(setq Y '(c d))

(setq Z (LIST X Y))



Examples:

(1) (APPEND '(a b) '(c d)) (a b c d)

(2) (LIST '(a b) '(c d)) ((a b) (c d))

(3) (CONS '(a b) '(c d)) ((a b) c d)

(4) (NCONC '(a b) '(c d)) (a b c d)

4 looks the same as 1 however:

(setq AB '(a b)) (a b)
(setq CD '(c d)) (c d)

AB (a b)
CD (c d)

(setq ABCD(NCONC AB CD)) (a b c d)

ABCD (a b c d)
CD (c d)
AB (a b c d)