Constructor and selectors

Cons

Selectors - car cdr

Difference between Cond and if..

If can check for only one condition

Cond can have many if conditions and finally a else.

How do you print 1,2,3,...10 as pairs using only cons.

(cons 1 (cons 2 (cons 3 (cons 4 (cons 5 (cons 6 (cons 7 (cons 8 (cons 9 10)))))))))

A= list ‘((1 2) 3)

Print 2 as output( using selectors)

Ans:(cdr (car A))

Tail recursive, time complexity

Time complexity α n

(Space/memory remains constant

Intermediate results can be obtained--extra points)

