MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Department of Electrical Engineering and Computer Science
6.001 Structure and Interpretation of Computer Programs
Spring, 2007

Recitation 7, Friday March 2

Higher Order Procedure Notes Dr. Kimberle Koile

1. Using higher order procedures: *procedures that return procedures*

(* 2 5)
(* 2 8)

(define (double n)

)

(define (make-mult x)

)

(define double

)

(* 3 2)
(* 3 4)

(define (triple n)

)

(define triple

)

2. Using higher order procedures: *procedures that take procedures as arguments*

very useful hops: map, filter, (fold-right, fold-left next recitation)

examples:

(map double (list 1 2 3 4)) => (2 4 6 8)

(filter even? (list 1 2 3 4)) => (2 4)

(define (map op items)

)

(define (filter op items)

)