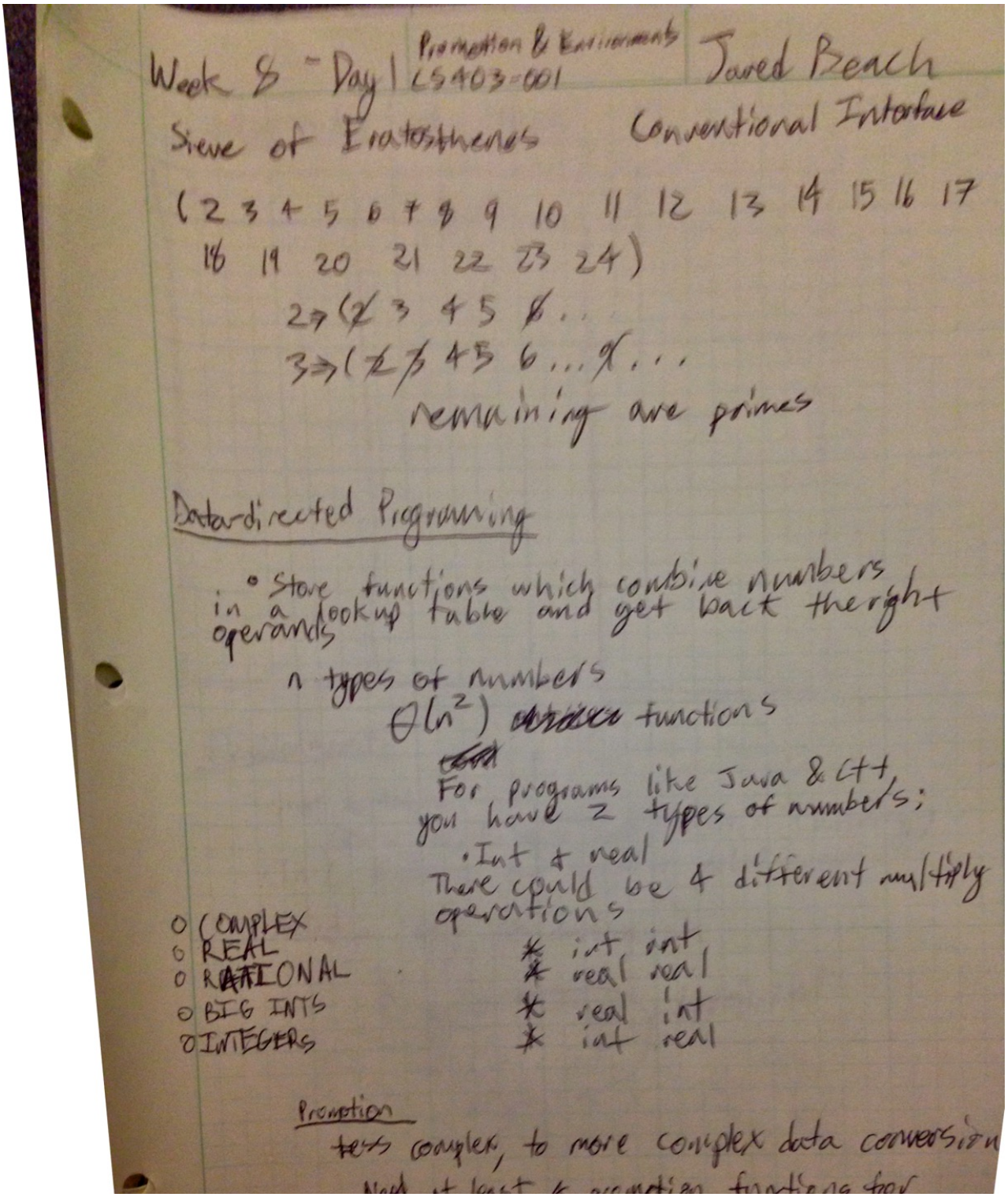
Week 8 - Day 1 (Environments and Conventional Interfaces)

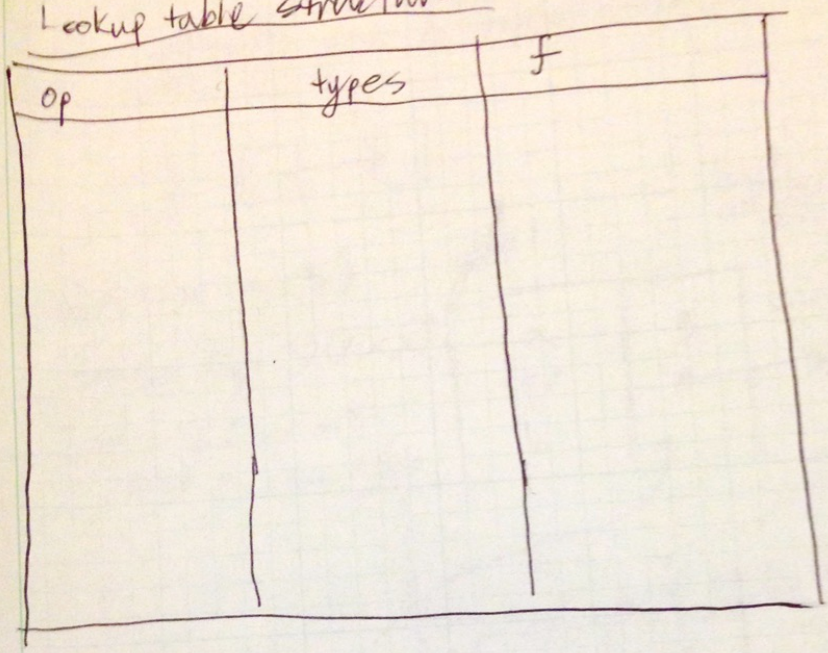
Tuesday, March 1, 2016 1:49 PM



the hierarchy

2/4

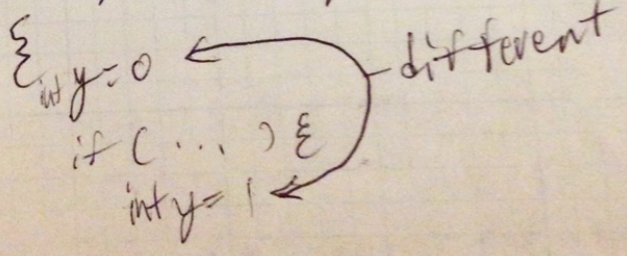
Lookup table structure



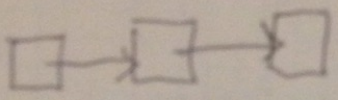
Environments

just a table
stores identifiers and values (binding)
*In C there is the local + global scope

Need a way to distinguish



Environments can be represented as a linked list of tables

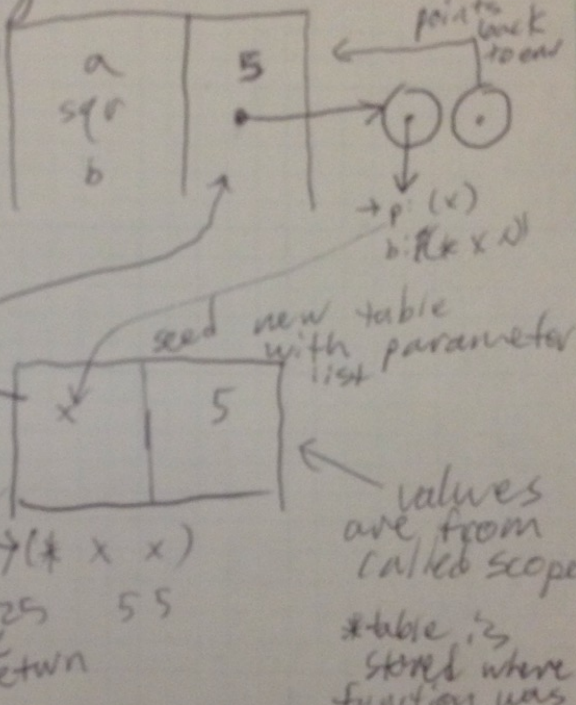


(define a 5)

(define (sqr x)(* x x))

(define b (sqr a))

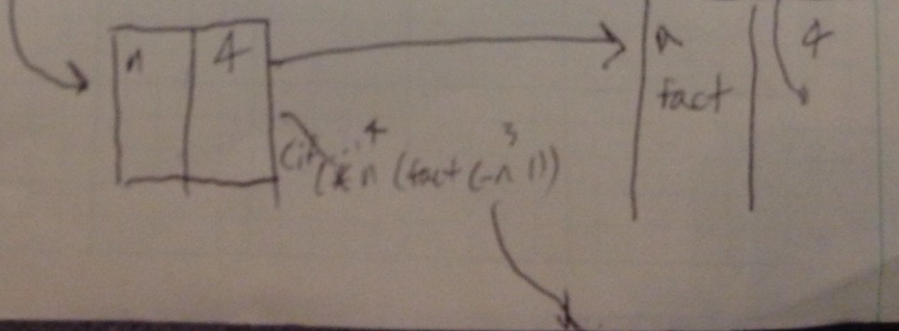
Need a new table

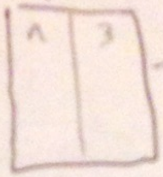


(define a 4)

(define (fact n) (if (= n 1) 1 (* n (fact (- n 1)))))

(define b (fact a))





goes back to where fact is defined

or n (fact (- n 1))]