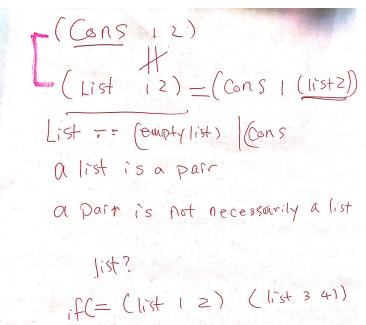
2017 Midterm Exam Lecture Notes

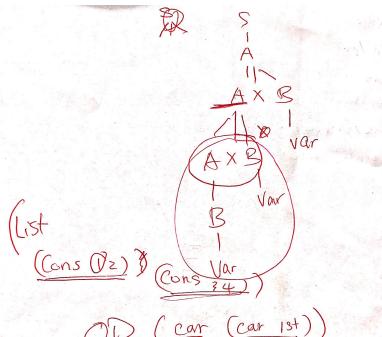
October 4, 2018

Pair and List

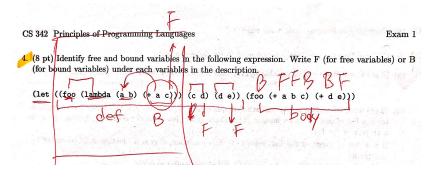


200

old: A>AXA | AWA | B New: A > A XB | A MB | B B->7B1C page 5 of 10



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```
(c) (2 pt) Convert the above FuncLang program into the curried form
Sol
(a) (define mylist (list (cons 1 3)
                          (cons 4 2)
                          (cons 5 6))
    (define apply-on-nth
      (lambda (op 1st n)
        (if (null? lst) -1
                     (car (car lst))
                          (car lst))
                     (apply-on-nth op (cdr lst) (-
(b) (define apply-on-nth
                                         OP (cor (cor 18+1))
     (lambda (op)
       (lambda (lst)
          (lambda (n)
            (if (null? lst) -1
                    (op (car (car lst))
                         (cdr (car lst)))
                    (if (< n 0) -1)
                         (((apply-on-nth op) (cdr lst)) (- n 1))))))))
```