CS3L:
Introduction to Symbolic Programming

Lecture 27:
Review – most children and truth about cons

Summer 2008 Colleen Lewis
colleenL@berkeley.edu

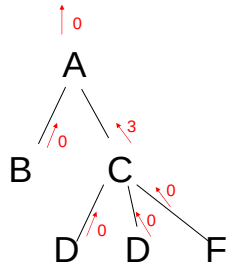
Today

- Generalized List Recursion
- The truth about cons

most-children

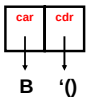
```
(define (number-of-most-children tree)
  (if (leaf? tree)
      0
      (reduce max
              (cons (length (children tree))
                    (map
                        number-of-most-children
                        (children tree) ) ) ) ) )
```

most-children



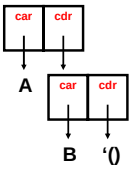
The truth about cons

- `(cons 'B '() )` ➔ `'(B)`



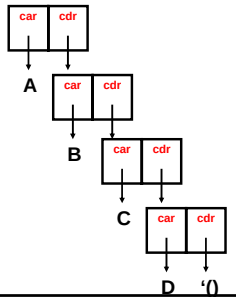
The truth about cons

- `(cons 'A '(B) )` ➔ `'(A B)`



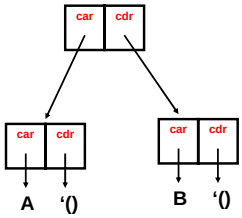
The truth about cons

- `(cons 'A '(B C D) )` ➔ `'(A B C D)`



The truth about cons

- `(cons '(A) '(B) )` ➔ `'((A) B)`



The truth about cons

- `(cons 'A 'B)` ➔ `'(A . B)`