



























Recursive Functions (define (len x) (cond ((null? x) 0) (else (+ 1 (len (cdr x)))))) (len '(1 2)) should yield 2. len is a shallow (len '(1 2)) -- top level call recursive function Trace: $x = (1 \ 2)$ (len '(2)) --recursive call 1 x = (2)(len '()) -- recursive call 2 x = () returns 0 -- return for call 2 returns (+ 1 0) =1 --return for call 1 returns (+ 1 1) = 2 -- return for top level call (len '((a) b (c d))) returns 3 15 Functional-10. CS5314. Sp16 © BGRvder









