CSUIA Exam Prep 10

FA21 Final Q4a

Implement repeated-call, a procedure that takes an operator expression and a list of operand expressions. It returns a repeated call for the operator and operands. If operands is nil, the result is the operator expression.

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(possibly empty) list s. (define (cons x s) (re cons that behaves just like the built-in cons when called on a You may not write cons in your solution. Append (List X) _ S	FA20 Final Q50
(list	x) '(x) (quote x) %	
iii. (1.0 pt) Which of t s (cdr s) (car s) (list s)	these could fill in blank (c)? Check all that apply.	

FA19 Final Q7a

Uh oh! Someone evaluated (define * +). Now (* 3 2) evaluates to 5 instead of 6! Let's fix it. **Important:** Answer all questions on this page without calling the built-in multiplication procedure.

(a) (3 pt) Implement mulxy, which multiplies integers x and y. Hint: (- 2) evaluates to -2.

FA19 Final Q76

(b) (2 pt) Implement mul-expr, which takes an expression e that contains only calls to * and numbers. It returns the normal value of e under a Scheme interpreter with an unmodified * operator that multiplies. You may call the mul procedure defined below.

Important: Fill each blank with only a single symbol.

FA19 FINAL Q7C

(c) (5 pt) Implement *-to-mul, which takes any expression e. It returns an expression like e, but with all calls to * replaced with calls to mul. Note that * takes an arbitrary number of arguments, while mul always takes exactly one argument: a list of numbers. You should account for this difference.

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