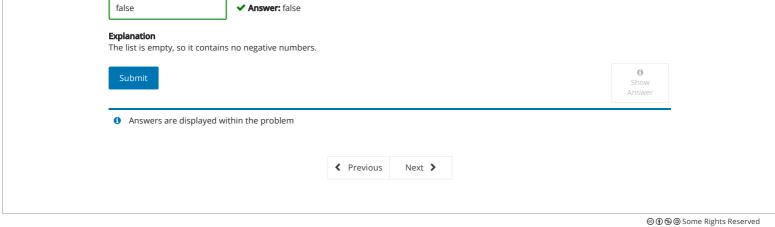
Next >

Question 3 1/1 point (graded)

(check-expect (contains-negative? empty) _____)

Help Systematic Program Design - Part 2 Design Recipes Problem Bank Style Rules Discussion Language Glossarv Progress Course > 4a: Self-Reference > Function Operating on List > Questions 1-3 Ø, Previous \blacksquare **Questions 1-3** ☐ Bookmark this page Consider the following Data Definition for ListOfNumber: ;; ListOfNumber is one of: ;; - empty ;; (cons Number ListOfNumber ;; interp. a list of numbers (define LON1 empty) (define LON2 (cons 1 empty)) (define LON3 (cons 2 (cons 1 empty))) (define (fn-for-lon lon) (cond [(empty? lon)(...)] [else (... (first lon) (fn-for-lon (rest lon)))])) ;; Template Rules Used: ;; - one of: 2 cases ;; - atomic distinct: empty ;; - compound: (cons Number ListOfNumber) ;; - [coming soon] We would like to design a function that consumes a list of numbers and produces true if that list contains a negative number. Questions 1 1/1 point (graded) Here is the signature and purpose for the function that produces true if the list contains a negative number. ;; ListOfNumber -> Boolean ;; produce true if a lon contains a negative number What is the result of the following tests? (check-expect (contains-negative? (cons 1 empty)) _____) false ✓ Answer: false **Explanation** The list has only 1 element and it is positive. 0 6 Answers are displayed within the problem Question 2 1/1 point (graded) (check-expect (contains-negative? (cons 1 (cons -1.5 empty))) _____) ✓ Answer: true true **Explanation** The second element of the list is negative. 0 1 Answers are displayed within the problem





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