

Problem Bank Style Rules Design Recipes Language Glossarv Discussion Progress Course > 5b: Helpers > Operating on a List > Question 4 **₫ B** 📀 Previous  $\blacksquare$ Next > **Question 4** ☐ Bookmark this page Question 4 1/1 point (graded) Now we have: ;; ListOfString -> ListOfString
;; sort strings into alphabetical order (check-expect (sort-strings empty) empty) (check-expect (sort-strings (cons S1 (cons S2 empty))) (cons S1 (cons S2 empty))) (check-expect (sort-strings (cons S3 (cons S1 empty))) (cons S1 (cons S3 empty))) ; (define (sort-strings los) los) Choose the correct function body for <code>sort-strings</code>. Assume we wished for a function with this wish list entry: ;; String ListOfString -> ListOfString ;; insert s in the correct place in the sorted list los  $% \left\{ 1,2,\ldots ,n\right\}$ (define (insert-string s los) los) (define (sort-strings los) (cond [(empty? los) empty] (insert-string (first los) (sort-strings (rest los)))])) (define (sort-strings los) (cond [(empty? los) empty] [else (sort-strings (first los) (insert-string (rest los)))])) (define (sort-strings los) (cond [(empty? los) empty] ſelse (insert-string (first los) (rest los))])) Explanation Like sort-images, all we need to do in sort-strings is to insert the string in the right place in a sorted list. So we need to trust that the result of the natural recursion is going to be a sorted list, and wish for a helper that does the insertion. 0 1 Answers are displayed within the problem

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