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;; Function To Be Tested: read-from-string
;;
;; Source:
                  CLtL p. 380
;;
;; Chapter 22: Input/Output
                                    Section 2.1: Input from Character Streams
;;
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;;
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                  {eris}<lispcore>cml>test>22-2-1-read-from-string.test
;;
;; Syntax: read-from-string string &optional eof-effor-p eof-value
                                           &key :start :end :preserve-
;;
whitespace
;; Function Description: reads the part of string delimited by :start and :end
and returns the lisp object built by the reader from it.
;;
;; Arguments
      string: a string
;;
      eof-error-p, eof-value: if true, return an error at eof; otherwise,
;;
return the value of eof-value
     :start, :end: (counting from 0) delimiters of the portion of the string
to read
      :preserve-whitespace: if true, reads whitespace characters as
;;
syntactically significant.
;; Returns: the object created by the reader, and the length of the string
(do-test-group read-from-string-group
      :before
      (progn
            (test-setq symbol5 ' | 5 |
                        list5 (list 5 4 3 2 1)
                        \5 6
                        55 66
            )
      ) ; progn
      (do-test "read-from-string produces symbols"
            (and
                  (every 'equal
                         (list (read-from-string "|5|") (read-from-string
"|55|"))
                         (list symbol5 symbol55)
                  (every '=
                        (list (eval (read-from-string "|5|")) (eval (read-
from-string " | 55 | ")))
                        '(6 66)
                  )
               ; and
      ) ; do-test "read-from-string produces symbols"
;;
      (do-test "read-from-string produces strings"
            (string-equal "Alexis is a bitch." (read-from-string "\"Alexis is
a BITCH.\""))
        ; do-test "read-from-string produces strings"
;;
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(do-test "read-from-string produces lists"
             (and
                   (listp (eval (read-from-string "lis
(listp (read-from-string "(5 4 3 2 1)"))
                                                         "list5")))
                   (= 1 (car (last (eval (read-from-string "list5")))))
                ; and
      ) ; do-test "read-from-string produces lists"
;;
      (do-test "read-from-string length value"
             ;; the object read is the same, but the strings' lengths are
different.
             (let ((version1 "(+ 3 3)") (version2 "( + 3
3 )"))
                   (and
                          (equal
                                (car (multiple-value-list (read-from-string
version1)))
                                (car (multiple-value-list (read-from-string
version2)))
                         ) ; equal
                          (not (equal (cadr (multiple-value-list (read-from-
string version1)))
                                             (cadr (multiple-value-list (read-
from-string version2)))
                         ))
                             ; not equal
                   )
                      ; and
                ; let
        ; do-test "read-from-string length value"
;;
      (do-test "read-from-string start and end keywords"
             (every #'(lambda (arg) (= (read-from-string "123") arg))
                   (list (read-from-string "0123" nil nil :start 1 :end 4)
(read-from-string "1234" nil nil :end 3)
                          (read-from-string "01234" nil nil :start 1 :end 4)
                          (read-from-string "01234" nil nil :end 4 :start 1)
                   )
              ; every
      ) ; do-test "read-from-string start and end keywords"
;;
      (do-test "read-from-string returns evaluable expressions"
             (and
                   (= 6 (eval (read-from-string "(+ 3 3)")))
                   (= 6 (eval (read-from-string "xxx(+ 3 3)!!!" nil nil :start
3 :end 10)))
                   (= (eval (read-from-string "(+ 3 3)")) (eval (read-from-
string "xxx(+ 3 3)!!!" nil nil :start 3 :end 10)))
            ) ; and
        ; do-test "read-from-string returns evaluable expressions"
;;
      (do-test "read-from-string eof arguments"
             (and
                   (= 0 (read-from-string "
                                                  " nil 0))
                   (expect-errors (error) (read-from-string "(car (list 1 2 3)"
t 0))
            ) ; and
      ) ; do-test "read-from-string eof arguments"
) ; do-test-group
STOP
```