```
; quicksort in lisp
(defun pivot (a) (car a))
(defun lesser (a b)
(if (null a)
nil
(if (> b (pivot a))
(cons (pivot a) (lesser (cdr a) b))
(lesser (cdr a) b))))
(defun larger (a b)
(if (null a)
nil
(if (< b (pivot a))
(cons (pivot a) (larger (cdr a) b))
(larger (cdr a) b))))
(defun equals (a b)
(if (null a)
nil
(if (= b (pivot a))
(cons (pivot a) (equals (cdr a) b))
(equals (cdr a) b))))
(defun qsort (a)
(if (< (length a) 2)
a
(append (qsort(lesser a (pivot
a))) (append (equals (cdr a)
(pivot a))
(cons (pivot a) (qsort(larger a
(pivot a))))))))
(defun main ()
(progn (format t "Enter list:")
(setf a (read))
(print (qsort a))))
(main)
```

Output

```
Enter list:(2 9 3 8 5 0 1)
(0 1 2 3 5 8 9)
```