Problem 4 had typos in the original version of PS3. Here’s the correct problem.

**Problem 4**: Consider the following recursive procedure:

```lisp
(define (list-sum lst)
  (if (null? lst)
      0
      (+ (car lst)
          (list-sum (cdr lst)))))
```

a) How many times is `list-sum` called when evaluating the expression `list-sum '(1 2 3 4 5)`?

b) What is the order of growth in space and time for the `list-sum` procedure above?

c) Write an iterative version of the procedure `list-sum`.

d) What is the order of growth in space and time for your iterative `list-sum` procedure from part c?