Quiz 8

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1. What would `scheme_read` return?

   ```
   (+ 2 3)
   ```

   ```
   '(1 2 3)
   ```

   ```
   (1 . 2)
   ```

   ```
   3
   ```

   ```
   (1 (2 3))
   ```

   ```
   (1 . (3 2))
   ```

   ```
   ('hi . 3 4)
   ```

2. Write a function `map` that is tail recursive. It should take in a list `lst` and a function `fn`, and apply the function onto every element in the list.

   ```
   (define (map fn lst)
   ```

   ```
   scm> (map (lambda (x) (* x x)) '(1 2 3 4))
   (1 4 9 16)
   ```