



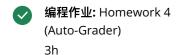
# Course Information and Overview

#### **Software Installation**

**Section-Wide Items** 

### **Video Lectures**

#### **Homework 4**



- 阅读材料: Homework 4
  Detailed Guidelines for Peer
  Assessment
- **互评作业:** Homework 4 45 min
- **审阅同学的作业:** Homework

# Community-Contributed Resources

### **General Instructions:**

- Several problems required using particular other functions. In many cases, the autograder already checked for this, so you should not re-penalize for the same thing. In other cases, it was not feasible to check this automatically. The per-problem instructions will make clear what to look for and what has already been auto-graded.
- Mutation, such as set! or set-mcar! is generally poor style, except in problem 10, where it is essential to the solution. In other problems, give at most a 3 to solutions using mutation.

## Problem 1:

Here is a sample solution:

```
1 (define (sequence low high stride)
2  (if (> low high)
3     null
4     (cons low (sequence (+ low stride) high stride))))
```

On this and all problems, do not penalize using the longer form (define sequence (lambda (low high stride) ... instead of using the syntactic sugar for function definitions as in the sample above.

There is little need for a solution more complicated than the one above, but it is okay to give a 5 to a solution that uses a local helper function to avoid passing **high** and **stride** recursively. It is also okay to use **cond** instead of **if** although **if** is usually better style when there are only two cases.

Remember that you are grading on general style, not how close to the sample solution a student solution is. It is perfectly fine for a solution to be significantly different from the sample, as long as it has good style.

### Problem 2

Here is a sample solution:

```
1 (define (string-append-map xs suffix)
2 (map (lambda (s) (string-append s suffix)) xs))
```

The auto-grader already penalized solutions that did not use **string-append** and **map** as helper functions, so we do not need peer assessment to judge this same issue.

There is little benefit to a longer solution here, so probably give at most a 4 to solutions that use some form of **let**-expression.

Remember that you are grading on general style, not how close to the sample solution a student solution is. It is perfectly fine for a solution to be significantly different from the sample, as long as it has good style.

## Problem 3

Here is a sample solution: