Class 10: Abstracting List Procedures

Assignments Due

- **Quiz 2 will be Monday.** It covers:
  - Course book Chapters 5 and 6.
  - *The Information*, Chapters 4 and 10.
  - Problem Set 1 Comments.
  - *A Lost Spirit Still Inspires*, Boston Globe, 4 September 2011 (link from Class 9 post).
  - Classes 1-11.

- **Friday, 23 September:** Problem Set 3

Upcoming Help Schedule (all office hours are now in Rice Hall)

- Note: Jiamin will not have her regularly scheduled office hours today.
- Thursday: 9:45-11am (Dave, Rice 507); 10-11:30am (Peter, Rice 1st); 1-2:30pm (Joseph, Rice 1st); 4:30-7:30pm (Jonathan/Jiamin, Rice 1st) – you know everything you need to get started on Problem Set 3, so it would be a good idea to take advantage of Thursday’s help hours, since the office hours the day or two before the problem set is due tend to get crowded.

Problems and Procedures

```scheme
(define (list-sum p))
(define (list-length p))
(define (list-product p))
(define (is-list? p))
```
(define (list-accumulate f base p)
  (if (null? p)

      __________

      (________ (car p) (________________________ f base (cdr p)))))

(define (list-sum p)
  (list-accumulate _______ ________ p))

(define (list-product p)
  (list-accumulate _______ ________ p))

(define (list-length p)
  (list-accumulate