

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

(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
```