### Part 1

- 1. (apply max (map abs (list -5 10 365 -20)))
- 6. (apply + (map furniture-price (list my-table my-chair)))

### number

(define x 10)
 (local [(define x "Northwestern University")
 (define (help x) x)]
 (help x))

## number

7. sell!

## furniture, string → void

## string

3. (define val true) (unless val 5)

# void or (void)

4. (define z (list "winter" "is" "great"))
 (if (= (length z) 3)
 (cons "summer" (rest z)))

# 8. (map (sell! f "ian") (list my-table my-chair))

### exception

- 9. (chair-color my-chair)
  - string

## exception

- 10. (begin (set-table-price! my-table 500) (table-price my-table))
  - exception

# (listof string)

#### Part 2

Question 1 Score:

Fix: add a list or a cons to the second append item (list (person-ssn (person-node-person pn)))

Question 2 Score:

Interaction	Desired-output
(define (find-max pn)	
(cond [(empty? pn) 0]	> 7
<pre>[else (max (find-max (person-node-left pn))</pre>	
<pre>(find-max (person-node-right pn)))]))</pre>	Actual output: 0
(find-max ian-node)	

Question 3 Score:

Interaction	Desired-output
(define s 0)	
(map (lambda (x)	> 10
(set! s (+ s x)))	Actual output:
(list 1 2 3 4))	(list (void) (void) (void) (void))

Fix: wrap the map in a begin and add a s to end. They are also welcome to change map to foreach, but that alone won't solve it.

```
ALSO CORRECT:
(begin (map (lambda (x) (begin (for-each (lambda (x) (set! s (+ s x))))
(list 1 2 3 4))
(set! s (+ s x)))
(set! s (+ s x)))
(list 1 2 3 4))
(set! s (+ s x)))
(set! s (+ s x)))
```

Question 4 Score:

```
Interaction
                                                                        Desired-output
(define (sumlist lst)
 (local [(define sum 0)
                                                                       > 6
          (define remaining lst)
          (define (sum-help)
                                                                       Actual output:
            (cond [(empty? remaining) sum]
                                                                       first: expects
                  [else (begin (set! remaining (rest remaining))
                                                                       a non-empty
                                (set! sum (+ sum (first remaining)))
                                                                       list; given:
                                                                        '()
                                (sum-help))]))]
    (sum-help)))
(sumlist (list 1 2 3))
```

Fix: swap order of set! lines

Question 5 Score:

Interaction	Desired-output
(define odds empty)	
(define lst2 (list 1 2 3 4 5 6 7 8 9))	> (list 1 3 5 7 9)
(begin (for-each (lambda (x)	
(when (odd? x)	Actual output:
<pre>(set! odds (cons x odds)))) lst2)</pre>	(list 9 7 5 3 1)
odds)	,