Scheme diary 20130219

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Exercise 1.1

```
1 10
   10
4 (+ 5 3 4)
   12
7 (- 9 1)
   8
10 (/ 6 2)
11
13 (+ (* 2 4) (- 4 6))
14
15
16 (define a 3)
   [I don't know; answer was a]
19 (define b (+ a 1))
    [dpb: note that a change to a now will *not* automatically change the value of b]
23 (+ a b (* a b))
   19
26 (= a b)
   [dpb: wrong; correct answer is #f; this is a conditional expression]
30 (if (and (> b a) (< b (* a b)))
      b
```

```
a)
32
    4
33
34
35 (cond ((= a 4) 6)
         ((= b 4) (+ 6 7 a))
36
         (else 25))
37
    16
38
39
40 (+ 2 (if (> b a) b a))
41
43 (* (cond ((> a b) a)
            ((< b 4) (+ 6 7 a))
44
            (else -1))
45
      (+ a 1))
46
```

Exercise 1.2

Exercise 1.3

- 1. Find sum.
- 2. Subtract minimum, using min.
- 3. Define maximum (using max) as m1.
- 4. Subtract m1 from sum to define second-largest, as m2.
- 5. Sum the squares of m1 and m2.

Not sure yet how to get input from user.

Code not yet working.

Exercise 1.4