

**Exercise 1.4.** Observe that our model of evaluation allows for combinations whose operators are compound expressions. Use this observation to describe the behavior of the following procedure:

```
(define (a-plus-abs-b a b)
  ((if (> b 0) + -) a b))
```

**Solution.** It is obvious that the `if` conditional here returns either the `+` or the `-` operator, whichever will later be applied to the operands, that is, `a` and `b`. Consequently, the procedure above evaluates the expression  $a + |b|$  mathematically.