

```

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;;;; MIT 6.001 Fall/2005
;;;; Frédo Durand - Recitation 1: Basic scheme expressions
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
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;;;; Date: 2019-02-10
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```

```

;;; Value of the following scheme expressions?

```

```

(+ 3 5)

```

```

; 8

```

```

(7)

```

```

; Error, 7 is been applied to nothing

```

```

7

```

```

; 7

```

```

-

```

```

; compound procedure

```

```

(= 2 3)

```

```

; #f

```

```

(> 4 5)

```

```

; #f

```

```

(7 - 4)

```

```

; Error, 7 is not an operator and is not applicable

```

```

(* (+3 5) (-5 2))

```

```

; Error, subexpressions do not have an operator and "+3" and "-5" are
; not applicable

```

```

(= #t #f)

```

```

; Error! The "=" procedure is for INTEGERS. As a matter of fact, the
; "=" name is bounded to "integer-equal?" procedure.

```

```

;;; Value of the sequence of expressions:

```

```

(define wouldyouaddthesetwonumbersplease +)

```

```

(define one 1)

```

```

(define two (+ one one))

```

```

(wouldyouaddthesetwonumbersplease one two)

```

```

; 3

```

```

;;; Translate do Scheme

```

```

; 5+1

```

```

(+ 5 1)

```

```

; 2*(4+1)

```

```

(* 2 (+ 4 1))

```

```

; 3*4+2*7

```

```

(+ (* 3 4)

```

```

  (* 2 7))

```

```
;;; Write an expression that evaluates to 3. Write a more interesting
;;; expression.
3
```

```
(/ 9 3)
```

```
;;; Value of the following scheme expressions?
(and true true)
; #t

(not true)
; #f

(or false true)
; #t
```