```
;;;;; MIT 6.001 Fall/1998
;;;;; Problem Set 0
;;;;; Student: Abrantes Araújo Silva Filho
;;;;; Date: 2019-02-11
;;;; Expressions to evaluate
-37
; -37
(*89)
; 72
(> 10 9.7)
; #t
(-(if (> 3 4)
    7
    10)
  (/610)
; 9.4
(* (-2510)
  (+63)
; 135
; compound procedure
(define double (lambda (x) (* 2 x)))
; undefined
double
; compound procedure
(define c 4)
; undefined
; 4
(double c)
; 8
С
; 4
(double (double (+ c 5)))
; 36
(define times-2 double)
; undefined
(times-2 c)
; 8
(define d c)
; undefined
```

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```
(= c d)
; #t
(cond ((>= c 2) d)
      ((= c (- d 5)) (+ c d))
      (else (abs (- c d))))
; 4
(define applyto3 (lambda (x) (x 3)))
; undefined. Just created procedure that apply it's argumento to the
; the expression 3.
(applyto3 double)
; 6. The applyto3 procedure takes its argument, another procedure
; (double) and apply this procedure to the expression 3 (wich is 3)
(applyto3 (lambda (z) (* z z)))
; 9. The applyto3 procedure take its argument (the lambda expressions
; that is creating an unmaed procedure that multiply z by z) and apply
; to the expression 3).
;;;; Questions
; Q1. According to the Don't Panic manual, what is the stepper and how
      do you invoke it?
; R1. The "stepper" permits step through evaluation of the expression,
      element by element and see the evaluation of each
      subexpression. Stepper is activated with M-s, on Edwin.
; Q2. According to the Guide to MIT Scheme, which of the words, in the
      scheme expressions you just evaluated above, are ''special
      forms''?
; R2. define, lambda, if, cond, else
; Q3. After referring to the course policy on collaboration, complete
      the following two sentences:
;
      Q3a. ''If you work with other students, ...''
;
      R3a. must identify with whom you worked. We expect, however,
;
           that you are involved in all aspects of the project. you
;
           write and comment your own set of code, and that you write
;
           up your results separately.
;
;
      Q3b. ''On your homework paper, you should write ...''
;
      R3b. You write and comment your own set of code, and that you
;
           write up your results separately. When you hand in material
;
           with your name on it, we assume that you are certifying
;
           that this is your work and that you were involved in all
;
           aspects of it. Do not just turn in a copy of a single file;
;
           write your own version.
```