CMPUT 325 LEC B1 - Winter 2021 - NON-PROCEDURAL PROG LANGUAGES

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Allowable Built-in Lisp Functions

The following are allowed functions and special forms in this assignment.

Note: If you need any other built-in functions, send an inquiry to the Discussion Forum. We either add the function or let you know how to avoid it.

```
(atom x)
(null x)
(eq x y)
(equal x y)
(numberp x)
(append x y)
(car x), (first x)
(cdr x), (rest x)
(cons x y)
(if x y z)
(cond  ... )
(let ((x y) ...(u v)) z)
(let* ((x y) ... (u v)) z)
(defun ...)
(quote x) and its short form 'x
(mapcar x y)
(reduce x y)
(lambda ...)
(funcall ...)
(apply ...)
(list ...)
(sort L fun)
(progn exp1 ... expn)  ;this can be useful if you have a sequence of evaluations and
                       ;just want to return the value of evaluating the last one.
(print ...)
(abs x)
(eval ...)

(+ x y)
(- x y)
(* x y)
(/ x y)
(< x y)
(> x y)
(= x y)
(<= x y)
(>= x y)
(and x y)
(or x y)
(not x)
```

You may also use any combination of car and cdr, such as

```
    (cadr ...), (cdaar ...), etc
```

as well as the accessor functions

```
    second, third, fourth, ..., tenth.
```

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Examples of Primitive Functions ►

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