

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

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## Examples of Primitive Functions

```
(fl-interp '(rest (1 2 (3))) nil)
==> (2 (3))
```

```
(fl-interp '(rest (p 1 2 (3))) nil)
==> (1 2 (3))
```

; application can be nested

```
(fl-interp '(first (rest (1 (2 3)))) nil)
==> (2 3)
```

```
(fl-interp '(eq (< 3 4) (eq (+ 3 4) (- 2 3))) nil)
==> NIL // changed Oct 17: replaced false, true by nil, T
```

```
(fl-interp '(if (> 1 0) (+ 1 2) (+ 2 3)) nil)
==> 3
```

```
(fl-interp '(if (> 1 0) (if (eq 1 2) 3 4) 5) nil)
==> 4
```

```
(fl-interp '(cons (first (1 2 3)) (cons a nil)) nil)
==> (1 a)
```

```
(fl-interp '(and (or T nil) (> 3 4)) nil)
==> NIL
```

```
(fl-interp '(eq (1 2 3) (1 2 3)) nil)
==> NIL
```

```
(fl-interp '(equal (1 2 3) (1 2 3)) nil)
==> T
```

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