

# Computer Science I

**CMPE/CSCI 1370 - 01**

- `day-lyric` (Days of the week)
- `bump-up` (Letter grade)
- `rock-vs` (Rock, paper, scissors)
- `complement` (Colors)
- `thermostat` (Temperature)
- `what-to-wear` (Temperature)
- `greet-period` (Hour of day)
- `spectrum-color` (Electromagnetic spectrum)

# Structure of the DATA

->

# Structure of the FUNCTION

# **cond** review

```
(define (letter-grade num-grade)
  (cond
    [(< num-grade 60) "F"]
    [(< num-grade 70) "D"]
    [(< num-grade 80) "C"]
    [(< num-grade 90) "B"]
    [else "A"])))
```

```
(define (letter-grade num-grade)
  (cond
    [(<= 90 num-grade 100) "A"]
    [(<= 80 num-grade 89) "B"]
    [(<= 70 num-grade 79) "C"]
    [(<= 60 num-grade 69) "D"]
    [else "F"])))
```

```
(letter-grade 83)
```

# Boolean operators

# Boolean operators

| a | b | (and a b) | (or a b) | (not a) |
|---|---|-----------|----------|---------|
| T | T |           |          |         |
| T | F |           |          |         |
| F | T |           |          |         |
| F | F |           |          |         |

```
(and (> 7 4) (or (not (> 7 8)) (= 7 5)))
```

A. `#true`

B. `#false`

C. Error

D. It depends

E. I don't know



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# Enumerations

fixed set of values

# Intervals

number ranges

# Structure of the DATA

->

# Structure of the FUNCTION

**Extra time: Rock, paper,  
scissors: 2 players!**

# Attendance!

<http://bit.ly/1370-4rollcall>