

# Computer Science I

**CMPE/CSCI 1370 - 01**

# Quick lab review

# **Systematic design**

**Design recipe**

**Data -> Function structure**

# Adding complexity in 2 directions (and matching skill):

- Multiple parameters (identify data types from word problems)
- Multiple discrete steps to solve the problems (identify discrete steps)

# Multiple parameters

- 2-player Rock, paper, scissors
- Check if available for office hours based on day of the week and hour of the day
- Mixing primary colors
- Calculate insurance premium from gender, age, and number of tickets on record

**Atomic, non-distinct**

**Enumeration**

**Interval**

**Itemization**

2 or more classes, at least 1 is non-distinct

- Given a month of the year, return the season
- Convert a temperature from F to C
- Classify an image as either small, medium, or large based on its area
- Draw a picture of a new years countdown
- Guess the season based on the temperature

- Check if available for office hours based on day of the week and hour of the day
- Mixing primary colors
- Calculate insurance premium from gender, age, and number of tickets on record
- Diagnose a patient based on temperature, and whether or not he has either (or more) of: a stuffy nose, rashes, pain in the ear



# Multiple parameters

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- Calculate insurance premium from gender, age, and number of tickets on record

# Attendance!

<http://bit.ly/1370-1rollcall>