# EXAM REVIEW, PROJECT WORK

CSSE 120—Rose Hulman Institute of Technology

# Announcements

- Emergence/RobotFollower presentations in class tomorrow


- Optional Intro to MATLAB session
  - Thursday hours 7-8 or hours 9-10 in C111
  - Mechanical/Biomedical Engineers who haven't taken ME123/BE100 are **required** to attend

# Exam 2 Facts

- **Date**: Thursday, October 22, 2009
- **Time**: 7:00 – 9:00 pm
- **Location**: Same as last time (see schedule page)
- **Chapters**:  Zelle chapters 1-9, 11:1-3, 11:6, with greater emphasis on chapters 6 - 11
- **Organization**: A paper part and a computer part, just as on the first exam.  Same resources allowed.

# Possible topics for exam 2

- topics from exam 1
  - see session 7 slides
- functions
  - defining
  - using
  - parameter-passing
  - return values
- loops
  - indefinite(while)
  - interactive
  - sentinel
  - File
  - nested
  - accumulators

- decision structures
  - if, elif, else
  - computing with Booleans
- random numbers
- top-down design
- bottom-up implementation
- dictionaries
  - as collections
  - as objects
- lists of
  - lists
  - objects
  - dictionaries
- project-related questions

# Project wrap-up

- Project due at beginning of next session
- Demonstration/Presentation in class
  - Please fill out top part of blank evaluation form and bring to next session
  - Each team member must be prepared to talk about the team's code (We will **randomly** choose one member to do this)
  - Five minutes per team, including questions

# Project presentation/demonstration

- Describe your program's special features (~1 minute)

- Demonstrate your program (~1 minute)

- Describe your code.  (~2 minutes) For example:
  - What was your team's biggest challenge?
  - How did you determine when other creatures are visible?
  - How did you arbitrate among the three rules when determining the acceleration?
  - When the magnitude of the desired acceleration is greater than the maximum allowed acceleration for that creature, how did you handle it ?

- Answer questions (~1 minute)

# RobotFollower
# Project presentation/ demonstration

- Demo of latest milestone (2 minutes)
  - If your program has full "in-traffic" functionality, you can demo it with another team.
  - If not, you'll have to show me what you have.
  - Include any special features you wrote
- Describe your code. (~2 minutes) For example:
  - What was your team's biggest challenge?
  - How did you determine when to update your IR values?
  - How did you pass information between functions? (Dictionary or not?)
- Answer questions (~1 minute)
- If you can demo your program today, you'll have less time pressure.