Intro to C

CSSE 221

Fundamentals of Software Development Honors Rose-Hulman Institute of Technology



Announcements |

- Please pass in your quiz, "Intro to C"
- Get packet of quizzes for next 3 days

- Two talks today, both next door in O169:
 - Danny Dig, about interactive parallelism, 10th
 - Rhonda McElroy, about grad school in computing, 11th hour (5:15-6:00)



Announcements

- Optional Exam 3 returned
- VectorGraphics returned
- Capsules done, grades returned
- Simulation Projects due now
 - You should be done coding new features
- Next steps to wrap-up
 - Make sure that everything is cleaned up
 - Prepare for your demo on Wednesday
 - Think about final Team Evaluation



Simulation Project Demo

- Wednesday, Blocks 5-6 (11:45 am-1:30 pm)
 - Union lobby
 - Publicity for your great work!
 - Get a chance to see teammates' projects, too
- Details in specification



Feedback on Java part of course

- While it's fresh in your mind
- Please complete the "plus/delta" survey
 - Plus = anything that worked well for you that I should continue to do the next time I teach the course
 - Delta = any suggestions for improvements

You may make it anonymous or nonymous.



Inverted classroom: It's time to apply your knowledge

- You watched videos and took quiz
- Any questions on configuring your workspace, C basics, and structs?
- Work on first assignment for the day (Nested Loops and That'sPerfect).
 - All except LinkedLists are due Monday.
- If you finish early, you may watch next videos or leave



My First C Program

Java

```
1#include <stdio.h>
2 public class JavaToCExample {
                                                         2#include<math.h>
                                                         3#define AR SIZE 4
      private static final int AR SIZE = 4;
                                                         4void square(int ar[]);
      public static void main(String[] args) {
                                                         6int main(int argc, char** argv) {
60
                                                               int ar[AR SIZE];
          int[] ar = new int[AR SIZE];
                                                               ar[0] = 4; ar[1] = 9; ar[2] = 12; ar[3] = 15;
          ar[0] = 4; ar[1] = 9; ar[2] = 12; ar[3] = 15;
8
                                                               square(ar);
          square(ar);
                                                               int i:
          for (int i = 0; i < ar.length; i++) {
                                                               for (i = 0; i < AR SIZE; i++) {
              System. out. println(ar[i]);
                                                                   printf("%d\n", ar[i]);
                                                        13
                                                        14
                                                        15
                                                               return 0;
                                                        16}
15
16⊖
      private static void square(int[] ar) {
                                                        18void square(int ar[]) {
          for (int i = 0; i < ar.length; i++) {</pre>
                                                        19
                                                               int i:
              ar[i] = (int)Math.pow(ar[i], 2);
                                                               for (i = 0; i < AR SIZE; i++) {
                                                        20
                                                        21
                                                                   ar[i] = pow(ar[i], 2);
                                                        22
                                                        23}
```