

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 session

Announcements

- Optional Exam 3 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, 4:20 pm–6:00 pm
 - Olin Hall, room 269
 - Publicity for your great work!
 - Get a chance to see teammates' projects, too
- Details in specification

Schedule

	Topic	Project	Indep
1	Interfaces	BigRational	
2	Inher & Poly	BallWorlds	Research
3	GUI	Fifteen	Research
4	Lists	VectorGraphics	Demo
5	Data Structs	Markov	Demo
6	Simulation	Simulation	
7	Sorting	Simulation	Present
8	Searching	Simulation	Present
9	C Basics	C Projects	
10	Linked Lists	Linked Lists	

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*.
- ANGEL → Lessons → Plus/Delta →
Feedback on Java portion of CSSE221

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

C

```
1 public class JavaToCExample {
2
3
4     private static final int AR_SIZE = 4;
5
6     public static void main(String[] args) {
7         int[] ar = new int[AR_SIZE];
8         ar[0] = 4; ar[1] = 9; ar[2] = 12; ar[3] = 15;
9
10        square(ar);
11        for (int i = 0; i < ar.length; i++) {
12            System.out.println(ar[i]);
13        }
14    }
15
16    private static void square(int[] ar) {
17        for (int i = 0; i < ar.length; i++) {
18            ar[i] = (int)Math.pow(ar[i], 2);
19        }
20    }
21 }
```

```
1#include <stdio.h>
2#include<math.h>
3#define AR_SIZE 4
4void square(int ar[]);
5
6int main(int argc, char** argv) {
7    int ar[AR_SIZE];
8    ar[0] = 4; ar[1] = 9; ar[2] = 12; ar[3] = 15;
9
10    square(ar);
11    int i;
12    for (i = 0; i < AR_SIZE; i++) {
13        printf("%d\n", ar[i]);
14    }
15    return 0;
16}
17
18void square(int ar[]) {
19    int i;
20    for (i = 0; i < AR_SIZE; i++) {
21        ar[i] = pow(ar[i], 2);
22    }
23}
```