CMSC 132 H
Dec 11th, 2009
Bill Pugh

Final Exam
Course Evaluations
Project
Recursion
Demos
Final exam

- Tuesday, Dec 15th, 4-6pm
- Room CSIC 3117
- more room to spread out
Course Evaluations

- Please fill out course evaluations
- http://www.CourseEvalUM.umd.edu
Sort prizes

- Mandeep Bedi, Heap sort
- John Ingraham, Quicksort
- Anu Bandi, Bubble and multithreaded
- Andrew Lohr, insertion sort
- Ryan Syms, Merge sort
- Kerry Cheng, John Ingraham, Ben Kellogg, David Minch, Exchange
Projects

- Due today, 6pm
- Late Sunday, 6pm, 10% penalty
- I’ll be around much of the afternoon for help
Recursion

- Seems to be the exam issue most people are worried about
- I’m working to calibrate my expectations for what is a reasonable exam question
Recursion

- Recursion that can be turned into a loop is nice, but not the most subtle/important kind of recursion to master

- Simple recursion: for a call, you have to enumerate all of a set of possibilities, and for each, make a recursive call
Sample recursion problems

• Print all lists of n digits where the digits are in sorted order

• Given a list of numbers and a target sum, determine if there is a subset of the numbers that adds up to the target sum

• Print all lists of x digits 1 to y that add up to z
  • whose product is z
132H vs. 132

- I’ve been asking you to do projects that are much harder than the projects in 132
- I hope you’ve found them interesting
- The 132 final exam questions seem way easy to me
- Perhaps 2/3′rds of our final exam questions will come from the standard 132 final
- Final letter grades will be curved to reflect the fact that an average grade in this class would probably be top 10-25% in the normal 132
Demos