

Recursion

2-10-2012

Opening Discussion

- Minute essay comments:
 - Pseudo-random numbers.
 - Tutoring is 3:30-5:00 MTWR.
 - How many users can a server handle and how many servers does a company use?
 - Permission denied typically means you left “scala” out of the command.
 - Why def before println?
 - How often do you use recursion?
 - We will use negative values in this course.
 - Lack of else on counting examples.

More

- 8-bit vs. 16-bit vs. 32-bit vs. 64-bit gaming.
- Calling functions in other files.
- Status of image analysis.
- Participation grade.
- How trusting of computers am I?
- Different return types on conditions.
- Definitely make a LinkedIn account. Put your resume on it.
- Messed up input files.
 - Found ')' expected ';'.
- IcP solutions

Tracing Recursion

- The act of running through code line by line to see what it does is called tracing. It is a very important skill for programmers.
- Tracing often involves writing out variables and tracing how they change or drawing “pictures”.
- I want to show you an approach to tracing recursive functions.

Deep Recursion

- The problem in dealing with 10,000 numbers.
- Rewrite the code so it doesn't have to remember things.

Minute Essay

- There are a few significant things that are lacking in our capabilities for programming. What do you see as things we lack that we need to add to be able to solve “real” problems?