Intro to Data Structures

Lecture #3 – Random Numbers & Problem Solving August 28, 2014

Mark Stehlik

Outline for Today

- Strings (and looking at the Java API)
- Random numbers
- Loops, Conditionals (by example)
 - PiDemo.java

Random numbers

- Math.random()
 - returns a "random" double in [0,1)
 - that is, between 0 and 0.99999...
- Generate an int between 0 to 9?
 - (int)(Math.random() * 10) // parens are important!
- Generate a dice value (1 to 6)?
 - (int)(Math.random() * 6) + 1

Problem solving (a guided exercise)

Suppose you're on a desert island (or a desert peninsula) and you've got some time on your hands. Since it's Qatar, you've also got a bunch of pearls. And since you're a geek, you now have everything you need to calculate PI...