CSE 373 Winter 2015

HW 1

Oracle Queues

The Concept

0   1   2   3

The Details

- Each oracle has a queue, initially empty.

- Questions come in from a file into questions array and answers from a file into answers array.

- There is a random number generator that generators a number between 0 and numOracles -1, so it "picks" an oracle.

- Each question is enqueued into the queue of one of the oracles based on generating a random number for it.

Round Robin Answering

- Round-Robin means we go through the oracles one at a time and then start over again till all questions are answered.

- Each oracle removes one question from its queue (unless the queue is empty; then it does nothing).

- It prints the question, a colon (:), and its answer. Each oracle has only one answer. They aren't too bright.

What We Give You

- Utility.java
  - includes initialization, functions for reading files, and the random function. Nothing for you to do.

- Executor.java
  - main program that initializes Utility, reads the files, and contains comments where you will insert your code.

- ArrayQueue.java
  - class ArrayQueue: you will write the methods

- ArrayQueueTest.java
  - tests the circularity functions of your ArrayQueue

Questions?