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/*
 * P0Main.java
 * P1Main.java derived from P0Main.java
 *
 * Created on January 6, 2003, 9:22 PM
 */

package project1;

/**  *  CSE143 03wi Project 1: "Which Oracle Do You Believe?".
 *  Driver class.  Your program will be tested with this, but you won't be
 *  able to turn in a modified version.
 * [Derived from CSE143 03wi Project 0: "Does The God of Luck Know You?"].
 *
 */

import project1.*;

public class P1Main {

    /** Number of individual trials to run, per oracle.
     3 is chosen as being a mystical number.*/
    public static final int trialsToRun = 3;
    /** Default value in case an argument is not supplied on the command line.
*/
    public static final String defaultrequest = "OF";

    /** Driver program for the application; not to be changed!
     * This main should be invoked from the command line, with
        a single string argument.
        in Bluej, it can
     *  be run directly and an argument string typed into the dialog box.
     */
    public static void main (String[] args) {
        System.out.println("\nThis program will invoke various oracles " +
                           "and determine how well the deities know and love
you.");
        if (args.length != 1) {
            System.out.println("Next time, please supply exactly one argument
" +
                           "instead of " + args.length);
            args = new String[] {defaultrequest}; //dummy up the argument
array
            System.out.println("Continuing with the default argument " +
                    args[0]);
        }
        String yourrequest = args[0];
        IOracle anOracle;
        anOracle = new LuckTester();
        System.out.println("\n******** First Oracle: " + anOracle.getName() +
                    " ***********");
        invokeTheOracle(anOracle, yourrequest);

        anOracle = new LuckyOccurrenceCounter();
        System.out.println("\n******** Second Oracle: " + anOracle.getName() +
                    " ***********");
        invokeTheOracle(anOracle, yourrequest);

        anOracle = new TextSearcher();
        System.out.println("\n******** Third Oracle: " + anOracle.getName() +
                    " ***********");
        invokeTheOracle(anOracle, yourrequest);
    //end main
    }

    /** Invoke an oracle and report the results.
     *  @param tester the oracle to be consulted; must not be null.
     *  @param request a string to be examined by the oracle.
     */
```

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    private static void invokeTheOracle(IOracle tester, String request) {
        System.out.println("\nYou may enter the Temple of " +
                tester.getName() + " with your question about " +
                request);
        boolean requestAreOK = tester.checkRequestData(request);
        if (!requestAreOK) {
            System.out.println("Violation! " + request +
                    " is not a suitable request.  You have insulted the
deities.");
            return;
        }

        System.out.println("O great " + tester.getName() +
                ", we ask you " + trialsToRun +
                " times: what can you tell us about " + request + "?");
        IOmen[] omenResults = new IOmen[trialsToRun];
        int trialsSum = 0;  //total number of invocations (trials) so far
        for (int t = 1; t <= trialsToRun; t++) {
            IOmen resultingOmen = tester.searchEntrailsForOmen(request);
            LuckTesterOmen result = (LuckTesterOmen) resultingOmen;
            if (result == null) {
                System.out.println("Trial #" + t + " produced no result.");
            } else {
                System.out.println("Trial #" + t + " produced a result" +
                              " which is briefly interpreted as: " +
                                result.interpretBriefly());
                omenResults[trialsToRun-1] = result;
            }
        }
        IOmen bestOmen = Utilities.chooseBestOmen(omenResults);
        if (bestOmen == null) {
            System.out.println("The oracle was displeased with thee. " +
                           "Increase thy offering four-fold for 10 years,
then try again.");
        } else {
            System.out.println("\nOf the " + trialsToRun + " invocations of "
+
                tester.getName() + ", the best result was this:\n\t" +
                bestOmen.interpretInDetail());
        }
        System.out.println("The session concerning " + request + " is over." +
                           " Exit temple on the left.");
    //end invokeTheOracle
    }

//end class
}
```