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/*--- HW20.java ---*/
import java.util.*;
import java.io.*;

/**
 * Driver class for hw 20 in IC211 (Spring 2018)
 * This is a wrapper to take input to then have a mystery class to computation
 * on
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 */
public class HW20 {

    /**
     * This main checks for the number of command line arguments
     * If it is 0, then input will be taken from STDIN
     * If it is 1, then input will come from that one file
     * Otherwise, a usage message is printed, and the process exits
     * The line number of the error (if there is one) will be reported
     * @param args Command line arguments: optional filename (but only one)
     */
    public static void main(String[] args) {
        InputStreamReader i = null;
        if (args.length == 0)
            i = new InputStreamReader(System.in);
        else if (args.length == 1) {
            try {
                i = new InputStreamReader(new FileInputStream(args[0]));
            } catch (FileNotFoundException e) {
                System.out.println("Error: " + args[0] + " could not be found.");
                System.exit(2);
            }
        } else {
            System.out.println("usage: java HW20 [<filename>]");
            System.exit(2);
        }

        LineNumberReader r = new LineNumberReader(i);
        Scanner sc = new Scanner(r);

        try {
            System.out.println(Mystery.compute(sc));
        } catch (Exception e) {
            System.out.println("Error: " + r.getLineNumber() + ": " + e.getMessage());
        }
    }
}
```