ECOO Round 3 QUESTIONS

May 9, 2015

Problem 4: Under the Rug

Marking Procedure

Input file names: DATA41.txt for the first try

DATA42.txt for the second try

*** ALLOW 60 SECONDS OF COMPUTING TIME ***

Bring the data file (solution.txt) on your USB key to the judging table to have it scored.

When scoring is over, you may show the target values on the next two pages to the team so they can copy them down.

The scoring method is as follows:

VALID SOLUTION

- 5 points for a valid solution (entire paint area covered, no unpainted area covered).

SIZE (only for valid solutions)

- 5 points if their solution is the same size or smaller than the target
- Otherwise define d = floor(target / 10). Then 4 points for being within d of the target, 3 points for being within 2d, 2 points for being within 3d, and one point for being within 4d.

BONUS (first try only)

- 10 extra points if they get a perfect score on all test cases.

If the file is corrupted or the format of the file is not valid, they might get some points or they might get nothing. It depends on the nature of the error and where it occurs in the file.

EXAMPLES

- Solution is valid with a size of 47. Target is 48.
 - o 10 Points.
- Solution is valid with a size of 135. Target is 112.
 - o 7 points.
- Solution is valid with a size of 181. Target is 165.
 - o 9 points.
- Solution is not valid.
 - o 0 points.

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FIRST TRY

Solutions

TARGET VALUES

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SECOND TRY

Solutions

TARGET VALUES