

Practice problems aimed to improve your coding skills.

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The Tale of Three Lines

LAB-PRAC-03_TYPES

The	Tale	of	Three	Lines	[20	marks]
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Problem Statement

You are given the equation of three lines in three variables. The equations will only contain integer values. Consider the 3 x 3 matrix formed by this system of equations. Find the three minors of this matrix corresponding to the three elements in the first row of this matrix (in order) as well as the determinant of this matrix. Output these four numbers in four different lines.

Caution

- 1. Be careful about extra/missing lines and extra/missing spaces.
- 2. First output the value of the minor M_11 then M_12 then M_13 followed by the determinant of this matrix. Give all values on different lines. Recall that M_ij denotes the minor of the matrix formed by removing the ith row and jth column of the matrix.

INPUT:

ax + by + c = 0

dx + ey + f = 0

gx + hy + i = 0

OUTPUT:

M11

M12

M13

Determinant

EXAMPLE:

INPUT

0x + 1y + 0 = 0

1x + 0y + 0 = 0

1x + 1y + 1 = 0

OUTPUT:

0

1

1

-1

Grading Scheme:

Total marks: [20 Points]

There will be partial grading in this question. Printing each line of the output (there will be total of4 lines in your output) will carry equal weightage. Each visible test case is worth 2 points and each hidden test case is worth 4 points. There are 2 visible test cases and 4 hidden test cases.

Please remember, however, that when you press Submit/Evaluate, you will get a green bar only if all parts of your answer are correct. Thus, if your answer is only partly correct, Prutor will say that you have not passed that test case completely, but when we do autograding afterwards, you will get partial marks.

¥¶ Start Solving! (/editor/practice/6020)