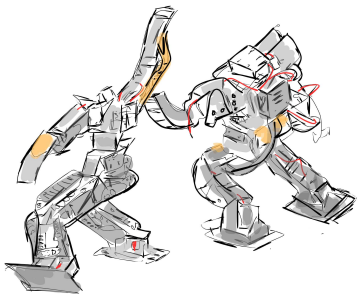
Problem L
Last One Standing



In a computer game units are described by their health h, damage d, and time to reload t.

When such a unit fires a missile at an opposing one — the opponent's health is decreased by d 0.5 seconds after the missile is fired. The time between consecutive missile launches for the same unit should be at least t seconds.

For simplicity, we assume the missile supply to be infinite for all units in the game.

Two players — one controlling a unit with health h_1, damage d_1 and time to reload t_1, and the second with a unit described by h_2, d_2 and t_2 — have engaged in a fight in this computer game. Both units are fully reloaded at the beginning of the fight and can fire missiles immediately.

The unit is destroyed when its health becomes zero or negative. A player wins if there is a moment in time such that the opponent's unit is destroyed, while theirs is not.

Since it takes 0.5 seconds for a missile to reach its target, it is possible for both units to fire missiles at the same time and ultimately destroy each other.

You are to determine who wins in case both players act optimally.

Input

- One line containing the integer numbers h_1, d_1 and t_1 ($1 \leq h_1, d_1, t_1 \leq 1000$).
- One line containing the integer numbers h_2, d_2 and t_2 ($1 \leq h_2, d_2, t_2 \leq 1000$).

Output

Output the phrase `player one` if the first player wins, `player two` if the second player wins, or `draw` if neither player wins.

Sample Input 1	Sample Output 1
30 10 10 30 15 19	player two

Sample Input 2	Sample Output 2
30 15 19 30 10 10	player one

Sample Input 3	Sample Output 3
100 20 10 100 12 5	draw

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