Problem B. Rudolph and Tic-Tac-Toe

Time limit 1000 ms
Mem limit 262144 kB

Rudolph invented the game of tic-tac-toe for three players. It has classic rules, except for the third player who plays with pluses. Rudolf has a 3×3 field — the result of the completed game. Each field cell contains either a cross, or a nought, or a plus sign, or nothing. The game is won by the player who makes a horizontal, vertical or diagonal row of 3's of their symbols.

Rudolph wants to find the result of the game. Either exactly one of the three players won or it ended in a draw. It is guaranteed that multiple players cannot win at the same time.

Input

The first line contains one integer t ($1 \le t \le 10^4$) — the number of test cases.

Each test case consists of three lines, each of which consists of three characters. The symbol can be one of four: "X" means a cross, "O" means a nought, "+" means a plus, "." means an empty cell.

Output

For each test case, print the string "X" if the crosses won, "O" if the noughts won, "+" if the pluses won, "DRAW" if there was a draw.

Sample 1

Input	Output
5 +X+ 0X0 0X. 0+. +0X X+0 .X0 0X. +++ 0.+ X.0 +.. .++ X.0 +..	X 0 + DRAW DRAW