## 10367 Equations

Given 2 equations on the variables $x$ and $y$, solve for $x$ and $y$.

## Input

The first line of input contains $N$, the number of test cases. Each test case consists of two equations, each on a separate line. An empty line separates cases. An equation consists of two or more terms separated by addition, subtraction, or equality operators. A term is an integer, or a variable name ( $x$ or $y$ ) optionally preceded by a minus sign or an integer coefficient.

There is exactly one equality operator. All operators are surrounded by spaces, and there are no spaces within terms.

## Output

For each case, print two lines, giving the values of $x$ and $y$ as rationals in simplest terms. If $x$ or $y$ has no unique rational value such that both equations hold, print 'don't know' for its value.

Print an empty line between cases.

## Sample Input

7
$2 \mathrm{x}+3 \mathrm{y}=\mathrm{x}$
$5=x+y+3$
$2 \mathrm{x}+3 \mathrm{y}=0$
$10 x=-15 y$
$2 \mathrm{x}+3 \mathrm{y}=0$
$10 \mathrm{x}=-15 \mathrm{y}+1$
$\mathrm{x}=1$
$3 x=6 y$
$2 \mathrm{x}=3 \mathrm{x}+-\mathrm{x}+\mathrm{y}$
$x+y=x+y$
$2 x=-3$
$-2 y=3$
$1=2$
$x=3$

## Sample Output

-1
don't know
don't know
don't know
don't know

1
1/2
don't know
0
$-3 / 2$
$-3 / 2$
don't know
don't know

