

# Solving linear equations

Solve a system of  $N$  ( $1 < N < 7$ ) linear equations of the form  $a_1 x_1 + a_2 x_2 + \dots + a_N x_N = c$ .  $a_i$  and  $c$  are real numbers. A unique solution is assured.

## Input

First line with number  $N$ , then  $N$  lines with  $a_1, a_2, \dots, a_N, c$  separated by space.

## Output

The results for  $x_1, x_2, \dots, x_N$  one in each line. The floats should have a precision of 5 digits after the decimal-point.

## Example

### Input:

```
2
1 2 3
2 3 4
```

### Output:

```
-1.00000
2.00000
```