

11565 Simple Equations

Let us look at a boring mathematics problem. :-)

We have three different integers, x , y and z , which satisfy the following three relations:

- $x + y + z = A$
- $xyz = B$
- $x^2 + y^2 + z^2 = C$

You are asked to **write a program** that solves for x , y and z for given values of A , B and C .

Input

The first line of the input file gives the number of test cases N ($N < 20$). Each of the following N lines gives the values of A , B and C ($1 \leq A, B, C \leq 10000$).

Output

For each test case, output the corresponding values of x , y and z . If there are many possible answers, choose the one with the least value of x . If there is a tie, output the one with the least value of y .

If there is no solution, output the line 'No solution.' instead.

Sample Input

```
2
1 2 3
6 6 14
```

Sample Output

```
No solution.
1 2 3
```