

This is an extreme version of a boring mathematics problem.

Let us recall the scenario: 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  $N$  ( $N < 250$ ) lines gives the values of  $A$ ,  $B$  and  $C$  ( $1 \leq A, B, C \leq 6 \times 10^{18} = 6000000000000000000$ ).

## 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
```