

## Problem 2 – Pythagorean Numbers

George likes math. Recently he discovered an interesting property of the [Pythagorean Theorem](#): there are infinite number of triples of integers **a**, **b** and **c** ( $a \leq b$ ), such that  $a^2 + b^2 = c^2$ . Write a program to help George find all such triples (called Pythagorean numbers) among a set of integer numbers.

### Input

The input data should be read from the console. At the first line, we have a number **n** – the count of the input numbers. At the next **n** lines we have **n different integers**.

The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

Print at the console all Pythagorean equations  $a^2 + b^2 = c^2$  ( $a \leq b$ ), which can be formed by the input numbers. Each equation should be printed in the following format: "**a\*a + b\*b = c\*c**". The order of the equations is not important. Beware of **spaces**: put spaces around the "+" and "=". In case of no Pythagorean numbers found, print "**No**".

### Constraints

- All input numbers will be **unique** integers in the range [0...999].
- The **count** of the input numbers will be in the range [1..100].
- Time limit: 0.3 sec. Memory limit: 16 MB.

### Examples

Input	Output
8	5*5 + 12*12 = 13*13
41	9*9 + 40*40 = 41*41
5	3*3 + 4*4 = 5*5
9	
12	
4	
13	
40	
3	

Input	Output
5	3*3 + 4*4 = 5*5
3	0*0 + 3*3 = 3*3
12	0*0 + 12*12 = 12*12
5	0*0 + 5*5 = 5*5
0	0*0 + 0*0 = 0*0
4	0*0 + 4*4 = 4*4

Input	Output
3	No
10	
20	
30	