# Problem 2 – Pythagorean Numbers

George likes math. Recently he discovered an interesting property of the [Pythagorean Theorem](http://en.wikipedia.org/wiki/Pythagorean_theorem): there are infinite number of triples of integers **a**, **b** and **c** (a ≤ b), such that **a2 + b2 = c2**. 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 **a2 + b2 = c2** (a ≤ 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** |  | **Input** | **Output** |  | **Input** | **Output** |
| 8  41  5  9  12  4  13  40  3 | 5\*5 + 12\*12 = 13\*13  9\*9 + 40\*40 = 41\*41  3\*3 + 4\*4 = 5\*5 | 5  3  12  5  0  4 | 3\*3 + 4\*4 = 5\*5  0\*0 + 3\*3 = 3\*3  0\*0 + 12\*12 = 12\*12  0\*0 + 5\*5 = 5\*5  0\*0 + 0\*0 = 0\*0  0\*0 + 4\*4 = 4\*4 | 3  10  20  30 | No |