# ~~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~~ **~~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 ≤ 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~~ |