**Programming Refresher Workshop**
**Exercise 3 (ex3): Perfect Square**

Given an integer, a perfect square is the square of the integer. For example, 16 is a perfect of 4 while 24 is not a perfect square of 5. You are to implement program that will determine whether a given series of integers are perfect squares or not.

**Input**

The first line of input contains an integer N.

This is followed by N lines of input each with an integer.

**Output**

For each integer, output the integer followed by " is a perfect square." if it is a perfect square. Otherwise, output the integer followed by " is not a perfect square."

**Sample input**

4

36

325

3136

4761

**Sample output**

36 is a perfect square.

325 is not a perfect square.

3136 is a perfect square.

4761 is a perfect square.

Note:

1. you should implement your program without using any pre-defined library routine such as **sqrt**.
2. Make sure your output adheres to the given format.