## Project Euler \#142: Perfect Square Collection

This problem is a programming version of Problem 142 from projecteuler.net
Print $N$ triples of integers $(x, y, z)$ such that $x>y>z>0, x \leq 10^{12}$, and $x+y, x-y, x+z, x-z$, $y+z, y-z$ are all perfect squares.

## Input Format

The input contains a single integer, $N$.

## Constraints

Input \#00: $N=1$
Input \#01: $N=3$
Input \#02: $N=10$
Input \#03: $N=30$
Input \#04: $N=100$
Input \#05: $N=300$
Input \#06: $N=1000$
Input \#07: $N=3000$
Input \#08: $N=5000$

## Output Format

Output $N$ lines, where each line contains three integers separated by single spaces: $x, y$ and $z$.

## Sample Input

Sample Output

```
472226642633463877982992452392145408
```


## Explanation

The problem asks us to output a single triple $(x, y, z)$. The sample output gives:
$x=472226642633$
$y=463877982992$
$z=452392145408$
You can verify that:

- $x>y>z>0$
- $x \leq 10^{12}$
- $x+y=936104625625=967525^{2}$
- $x-y=8348659641=91371^{2}$
- $x+z=924618788041=961571^{2}$
- $x-z=19834497225=140835^{2}$
- $y+z=916270128400=957220^{2}$
- $y-z=11485837584=107172^{2}$

You can output other triples aside from this, as long as they satisfy the constraints.

