# Pythagorean Triplet B

## **Problem Description**

Read an integer N as input and output the first N pythogarean triplets. A Pythogarean triplet like <3, 4, 5> should be counted only once. Meaning we should not count again <4, 3, 5>, <5, 4, 3> etc.Output the triplets in lexicographical order.

A triplet a is lexicographically smaller than a triplet b if in the first position where a and b differ, the triplet a has a smaller element than the corresponding element in b.

#### **Constraints**

 $N \le 100$ 

Each side of the triangle should be less than or equal to 200.

#### Input

A single integer N.

#### **Output**

N lines with 3 space separated integers in each line. If triplet is <A, B, C> , A < B < C.

## Sample Input 1

5

#### **Sample Output 1**

3 4 5 5 12 13 6 8 10 7 24 25 8 15 17

#### Sample Input 2

12

#### **Sample Output 2**

3 4 5 5 12 13

6	8	10
7	24	25
8	15	17
9	12	15
9	40	41
10	24	26
11	60	61
12	16	20
12	35	37
13	84	85