Question 1 You are transporting some boxes through a tunnel, where each box is a parallelepiped, and is characterized by its length, width and height. Flag question The height of the tunnel 41 feet and the width can be assumed to be infinite. A box can be carried through the tunnel only if its height is strictly less than the tunnel's height. Find the volume of each box that can be successfully transported to the other end of the tunnel. Note: Boxes cannot be rotated. Input Format The first line contains a single integer  $n_i$ , denoting the number of boxes. n lines follow with three integers on each separated by single spaces - length; width; and height; which are length, width and height in feet of the i-th box. Constraints  $1 \le n \le 100$  $1 \le length_i$ , width<sub>i</sub>, height<sub>i</sub>  $\le 100$ Output Format For every box from the input which has a height lesser than 41 feet, print its volume in a separate line. Sample Input 0 4 555 10 5 41 7 2 42 Sample Output 0 125 80

Explanation 0

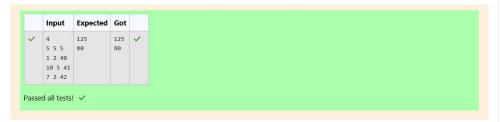
The first box is really low, only 5 feet tall, so it can pass through the tunnel and its volume is  $5 \times 5 \times 5 = 125$ .

The second box is sufficiently low, its volume is  $1 \times 2 \times 4 = 80$ .

The third box is exactly 41 feet tall, so it cannot pass. The same can be said about the fourth box.

Answer: (penalty regime: 0 %)

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Question **2**Correct
Flag question

You are given n triangles, specifically, their sides  $a_i$ ,  $b_i$  and  $c_i$ . Print them in the same style but sorted by their areas from the smallest one to the largest one. It is guaranteed that all the areas are different.

The best way to calculate a volume of the triangle with sides  $\pmb{a}, \pmb{b}$  and  $\pmb{c}$  is Heron's formula:

 $S = \ddot{O} \ p * (p-a) * (p-b) * (p-c) \ \text{where} \ p = (a+b+c) / 2.$ 

Input Format

First line of each test file contains a single integer n. n lines follow with  $a_i$ ,  $b_i$  and  $c_i$  on each separated by single spaces.

Constraints

1 ≤ n ≤ 100

 $1 \leq a_i, b_i, c_i \leq 70$ 

 $a_i + b_i > c_i$ ,  $a_i + c_i > b_i$  and  $b_i + c_i > a_i$ 

Output Format

Print exactly n lines. On each line print 3 integers separated by single spaces, which are  $a_i$ ,  $b_i$  and  $c_i$  of the corresponding triangle.

Sample Input 0

3

7 24 25

5 12 13

3 4 5

