```
Status Finished
Started Monday, 13 January 2025, 11:49 PM
Completed Toesday, 14 January 2025, 12:04 AM
Duration 15 mins 9 secs
Question 1
Conset
I* Pag question
                         You are transporting some boxes through a tunnel, where each box is a parallelepiped, and is characterized by its length, width and height.
                         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 \boldsymbol{n}, 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 length_i, width, height, \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
                         555
                         1 2 40
                         10 5 41
                         7 2 42
                         Sample Output 0
                         125
                         Explanation 0
                       The first box is really low, only 5 feet tall, so it can pass through the tunnel and its volume is 5 x 5 x 5 = 125.
```

```
Vou are given in 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 a_i, b_i and c_i is Heron's formula:

S = \tilde{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 a_i is lines follow with a_i, b_i and c_i on each separated by single spaces.

Constraints

J * a * s = 100
J * a_i * b_i * c_i * a_i * c_i * b_i * and * b_i * c_i * * a_i
Output Format

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

Sample Input <math>0

3

7 24 25

5 12 13

3 4 5

Sample Output 0
```

The square of the first triangle is 84. The square of the second triangle is 30. The square of the third triangle is 6. So the sorted order is the reverse one.

```
Input Expected Got

3 3 4 5 3 4 5 
7 24 25 5 22 23 5 22 23 5 22 23 5 22 23 5 22 23 5 22 23 7 24 25 
3 4 5 7 24 25 7 24 25
```

Finish review