

**ENGLISH** 

## **Triangles**

There are given n isosceles right triangles on a plane. Each triangle can be described by three integers x,y,m (m>0). Vertices of such a triangle are points which have coordinates (x;y), (x+m;y) and (x;y+m).

Write a program which calculates the total area covered by triangles.

## Input data

The first line of the input file tr.in contains one positive integer n (n  $\leq$  2000), the number of triangles on a plane.

The next n lines of the file describe the triangles, one triangle per line. Each line contains three integers  $x_i$ ,  $y_i$  and  $m_i$ , separated by single spaces  $(1 \le i \le n, -10^7 \le x_i \le 10^7, -10^7 \le y_i \le 10^7, 0 < m_i \le 1000)$ .

## **Output data**

On the first line of the file tr.out one number with exactly one digit after decimal point must be written – the total area covered by triangles.

## **Example**

tr.in	tr.out
5	24.5
-5 -3 6	
-1 -2 3	
0 0 2	
-2 2 1	
-4 -1 2	

