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Correct

Question 1

You are transporting some boxes through a tunnel, where each box is a parallelepiped, and is

Input Format

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.

The first line contains a single integer *n*, denoting the number of boxes. *n* lines follow with three integers on each separated by single spaces - *length_i*, *width_i* and

 $1 \le length_i$, width_i, height_i ≤ 100

characterized by its length, width and height.

Constraints

height; which are length, width and height in feet of the *i*-th box.

1 ≤ n ≤ 100

0

Output Format

Sample Input 0

separate line.

4 5 5 5

For every box from the input which has a height lesser than 41 feet, print its volume in a

10 5 41 7 2 42

Sample Output 0

Explanation 0

1240

125

80

box.

6 ▼

7

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121314

15

}

Input

Flag question

areas are different.

Input Format

Constraints

 $1 \le n \le 100$

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

Sample Input 0

3 4 5

7 24 25

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

Answer: (penalty regime: 0 %)

int length, width, height;

printf("%d\n",volum);

if(height<41)</pre>

#include<stdio.h>

{

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

2 int main(){
3 int n;
4 scanf("%d",&n);
5 for(int i=0;i<n;i++)</pre>

scanf("%d %d %d",&length,&width,&height);

int volum = length*width*height;

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

Expected

Got

separated by single spaces.

Print exactly n lines. On each line print 3 integers separated by single spaces, which are a_i , b_i

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

You are given n triangles, specifically, their sides a_i , b_i and c_i . Print them in the same style

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

but sorted by their areas from the smallest one to the largest one. It is guaranteed that all the

Output Format

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

3 7 24 25 5 12 13

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

and c_i of the corresponding triangle.

Sample Output 0

3 4 5 5 12 13

Answer: (penalty regime: 0 %)

#include<stdio.h>
#include<math.h>

int a,b,c;

return 0;

double calculate_area(int a,int b,int c)

return sqrt(p*(p-a)*(p-b)*(p-c));

if(t1->area < t2->area) return -1;

scanf("%d %d %d",&a,&b,&c);

triangles[i].area = calculate_area(a,b,c);

printf("%d %d %d\n",triangles[i].a,triangles[i].b,triangles[

qsort(triangles,n,sizeof(Triangle),compare);

triangles[i].a = a;

triangles[i].b = b;

triangles[i].c = c;

for(int i=0;i<n;i++)</pre>

if(t1->area > t2->area) return 1;

int compare(const void*x,const void*y)

Triangle *t1=(Triangle *)x;

Triangle *t2=(Triangle *)y;

double p=(a+b+c)/2.0;

Triangle;

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.

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23 24 ▼

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34

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3637

38

39 40 •

4142

43 44

}

}

11 ▼ | {

Explanation 0

3 #include<stdlib.h>
4 typedef struct
5 | {
6 double area;

int main()

	Input	Expected	Got	
~		3 4 5 5 12 13 7 24 25		~

return 0;

Finish review

```
Quiz navigation

1 2

Show one page at a time

Finish review
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