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REC-CIS

GE23131-Programming Using C-2024









REC-CIS

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 %)

```
#include<stdio.h>
int main()

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int n;

scanf("%d",&n);

for(int i=0;i<n;i++)

int length,width,height;
 scanf("%d %d %d",&length,&width,&
 if(height<41){
   int volume=length+width+heigh
   printf("%d\n",volume);
}

}

}</pre>
```

Question 2

Correct

F 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 **a**, **b** and **c** is Heron's formula:

$$S = \ddot{O} p * (p - a) * (p - b) * (p - c)$$
 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 ≤ a_i, b_i, c_i ≤ 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 \mathbf{a}_i , \mathbf{b}_i and \mathbf{c}_i of the corresponding triangle.

Sample Input 0

3

7 24 25

5 12 13

345





REC-CIS

```
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
345
Sample Output 0
345
5 12 13
7 24 25
Explanation 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.
Answer: (penalty regime: 0 %)
   11
    12
13
          compare(const void*x,const void*y)
    13*

4 Triangle *tl=(Triangle *)x;

15 Triangle *t2=(Triangle *)y;

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

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

18 return 0;
    18
19
         main(){
int n;
scanf("%d",&n);
Triangle triangles[n];
for(int i=0,icn,i++){
   int a,b,c;
   scanf("%d %d %d",&a,&b,&c);
}
    20
    21
    23
24
25
26
                scan( %o %o %o , &a, &b, &c);

triangles[i].b=b;

triangles[i].c=c;

triangles[i].area=calculate_area(a,b,
   27
28
   29
30
    31
    32
         qsort(triangles,n,sizeof(Triangle),compare
for(int i=0;i<n,i++){
    printf("%d %d %d\n",triangles[i].a,tr.
    33
    34 •
    36
37
          return 0;
    38
39
                       Expected Got
          Input
                      3 4 5
                                      3 4 5
          7 24 25 5 12 13 5 12 13
5 12 13 7 24 25 7 24 25
3 4 5
  Passed all tests! 🗸
                                                             Finish review
```



