Boxes through a Tunnel ★

80 more points to get your gold badge!

Rank: **26385** | Points: **420/500**

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Problem Submissions Leaderboard Editorial

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 n, denoting the number of boxes.
n lines follow with three integers on each separated by single spaces — $length_i$, $width_i$ and $height_i$ which are length, width and height in feet of the i-th box.

Constraints

- $1 \leq n \leq 100$
- $1 \leq length_i, width_i, height_i \leq 100$

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
5 5 5
1 2 40
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 $1 \times 2 \times 40 = 80$.

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

Change Theme Language: C

```
struct box
{
    /**
    * Define three fields of type int: length, width and height
    */
    int length;
    int width;
    int height;
    int volume;
};

typedef struct box box;

int get_volume(box b) {
    /**
    * Return the volume of the box
    */
    return(b.height* b.width * b.length);

}

int is_lower_than_max_height(box b) {
    /**
```

Line: 22 Col: 41

Upload Code as File Test against custom input Run Code Submit Code

You have earned 25.00 points!

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73% 420/500

C language ★★★★

Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

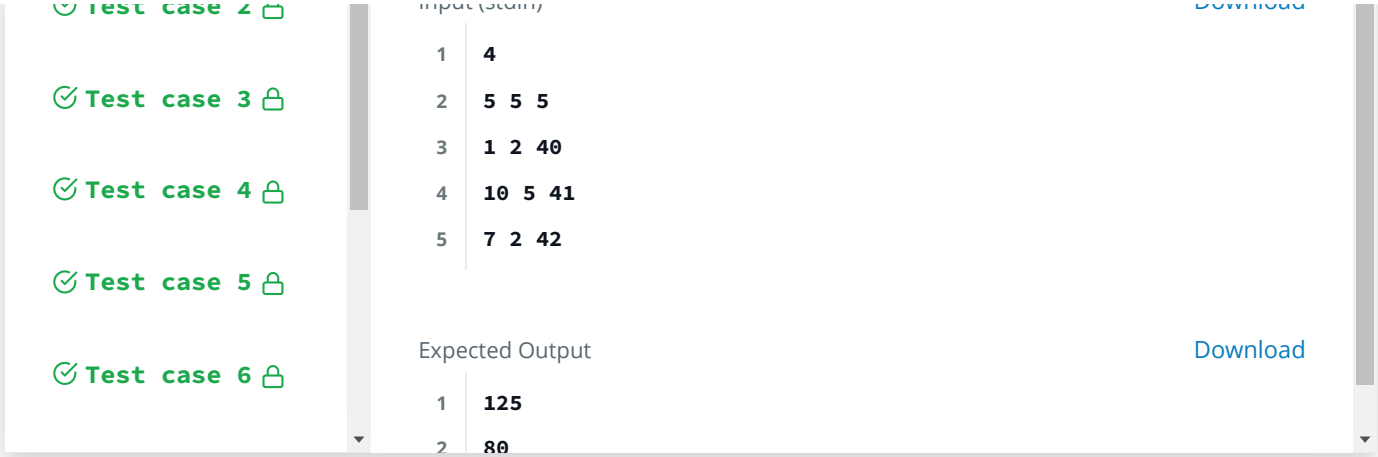
Test case 0

Test case 1

Compiler Message

Success

Input (stdin) Download


Test case 2
Test case 3
Test case 4
Test case 5
Test case 6
1 4
2 5 5 5
3 1 2 40
4 10 5 41
5 7 2 42
Expected Output
Download
1 125
2 80