

## Problem G: Give Me a Lot of Triangles

- Time Limit: 2 sec

### Problem Statement

You have  $A_1$  sticks of length **1**,  $A_2$  sticks of length **2**, and  $A_3$  sticks of length **3**. You can perform the following operation any number of times:

- Choose 3 sticks such that they can form a triangle. Use these 3 sticks to make a triangle. Once used, these sticks cannot be used to form other triangles.

To "form a triangle", the lengths of the chosen sticks  $a$ ,  $b$ , and  $c$  must satisfy the triangle inequality:  $a + b > c$ ,  $b + c > a$ , and  $c + a > b$ .

Determine the maximum number of triangles that can be made.

Given  $T$  test cases, compute the answer for each.

### Input

The input is given in the following format:

```
 $T$   
case1  
case2  
⋮  
case $T$ 
```

Here, **case** <sub>$i$</sub>  denotes the  $i$ -th test case.

Each test case is given in the following format:

```
 $A_1$   $A_2$   $A_3$ 
```

- $1 \leq T \leq 10,000$
- $0 \leq A_i \leq 10^8$
- All input values are integers.

### Output

Output  $T$  lines. On the  $i$ -th line, output the answer for the  $i$ -th test case.

Sample Input	Sample Output
4	2
3 1 2	1
4 1 1	0
0 0 0	41730095
31415926 535897 93238462	