

# Team Building

To make competitive programmers of BUBT, authority decide to take regular programming contest. To make this contest more competitive and fruitful there are some rules given to balance a team:

- 1. Only 1st , 2nd and 3rd year student can participate.**
- 2. A team must have three members.**
- 3. All the member cannot be from same year.**

You need to find out the maximum number of teams can build up according to given rules.

## Input

The first line of input contain an integer **T** ( $1 \leq T \leq 10000$ ) test case. Next T line contains three positive integer **X, Y and Z** ( $1 \leq X, Y, Z \leq 2 \cdot 10^9$ ) separated by a space which denotes the number of participants from 1st, 2nd, and 3rd year student.

## Output

You need to find out the maximum number of teams can build up according to given rules.

## Example

Input  
2  
1 2 3  
1 12 3

Output  
2  
4