1069 - Soda Surpler

Description

Tim is an absolutely obsessive soda drinker, he simply cannot get enough. Most annoyingly though, he almost never has any money, so his only obvious legal way to obtain more soda is to take the money he gets when he recycles empty soda bottles to buy new ones. In addition to the empty bottles resulting from his own consumption he sometimes find empty bottles in the street. One day he was extra thirsty, so he actually drank sodas until he couldn't afford a new one.

Input specification

The first line of the input file contains an integer **N (1 <= N <= 15)** which denotes the total number of test cases. The description of each test case is given below:
A line with three non-negative integers **E**, **F**, **C**, where **0 <= E <= 1000** represents the amount of empty soda bottles in Tim's possession at the start of the day, **0 <= F <= 1000** represents the amount of empty soda bottles that Tim found in the street during the day, and **1 <= C <= 2000** represents the amount of empty soda bottles required to buy a new soda.

Output specification

For each test case, your program should print a line with a whole number that represents the amount of soda bottles that Tim can be taken. Look at the sample output for details. If Tim can take infinitely Sodas, print the number 0.

Sample input

```
2
9  0  3
5  5  2
```

Sample output

```
4
9
```

Hint(s)

Added by	**ejaltuna**
Addition date	2011-10-13 10:02:01.0
Time limit (ms)	1000
Test limit (ms)	1000
Memory limit (kb)	131072
Output limit (mb)	64
Size limit (bytes)	100000
Enabled languages	C C# C++ Java Pascal Perl PHP Python Ruby Text