## An Arithmetic Problem

A sequence is an arithmatic sequence if every two succesive number has same difference. Suppose this is a sequence of numbers:
$a_{1}, a_{2}, a_{3}$ $a_{n}$

This is an arithmatic sequence if $a_{i}-a_{i+1}$ is same for each $\boldsymbol{i}$ from 1 to $n-1$.

You are given first 3 terms of a sequence and the value of $n$. If it is an arithmatic sequence you must print the nth term. Otherwise you must print "Error".

## Input Format:

In First line there will an integer $T$ denoting number of test cases. Each of the next 3 lines will contain 4 integers $a_{1}$, $a_{2}, a_{3}$ and $n$.

## Output Format:

In each line specify the case number and print the answer.

## Constraints:

$-300<=a_{1}, a_{2}, a_{3}<=300$
$1<=\mathrm{n}<=1000$

## Sample Input:

3

12310

14310

1530455

## Sample Output:

Case 1: 10

Case 2: Error

Case 3: 75

Problem-setter: Shafaet Ashraf

