Jutge.org

— Yep.

— All right.

— Quick: multiply the sum by five!

— [Loud] The result is 73365.

— Please tell us the result in a loud voice.

The Virtual Learning Environment for Computer Programming

Uncle Ernie the Magician

P43850_en

Segon Concurs de Programació de la UPC - Primera Semifinal (2004-09-14)

Uncle Ernie is a brilliant magician. The other day he thrilled the theater by guessing a number that someone in the audience had thought. The dialog that took place during the show was more or less like this:

sho	ow was more or less like this:
-	— What's your name, lad?
-	— Uhhh, I'm Bill.
-	 Ok, Bill, we will perform a telepathic experiment. Please write down a number on this sheet. Any number will do.
-	— Done.
-	— Perfect, now please put the sheet with your number inside this envelope and give it to that young lady in the first row. Isn't she gorgeous? [To the beautiful lady] Please come backstage after the show, I'll show you a nice trick Anyway, please hold the envelope close to your chest. [To Bill] Excellent! Now, please concentrate on your number, fix your mind on that number.
_	— Mmmh
_	— C'mon chap! Please try it harder! I can't get the waves from your brain
-	— Mmmhhhh
-	— I don't get it [To the audience] I think someone here is introducing interferences. Someone is causing bad vibrations and making trouble. Is President Bush between us tonight? That was a joke! [Laughs] [To Bill] Let's see multiply your number by five.
_	— [After a while] That's it.
_	— You're a genius! Add six to the product.
_	— Yes.
_	— Multiply the sum by four.
-	— Done.
_	— Now, add nine to the product. Jez, be careful, don't mess the numbers!

- Ok ... Let's see ... I think I've got it ... Mmmhh ... You wrote number 732? Did you write number 732? Is 732 the number you wrote? Is it?
- YES!!! [Applause from the audience]

Indeed, 732 was the number written in the envelope, as the good-looking girl confirmed.

Can you emulate Uncle Ernie and write a magical program that guesses the number that the computer thinks? The computer will think a number, will perform the same calculations on this number as Bill and will tell you the result. You have to "guess" the original number.

Input

Input consists of several integer numbers: the results obtained by the computer. All them will be between 0 and $2^{31} - 1$.

Output

For every given integer, print the original number thought by the computer. You have the guarantee that the computer will not try to cheat you.

Sample input	Sample output
73365	732
465	3
73365 465	732
	3

Problem information

Author: Jordi Petit

Generation: 2016-12-08 11:34:46

© *Jutge.org*, 2006–2016. http://www.jutge.org