Once upon a time, there is a special coco-cola store. If you return three empty bottles to the shop, you'll get a full bottle of coco-cola to drink. If you have n empty bottles right in your hand, how many full bottles of coco-cola can you drink?

## Input

There will be at most 10 test cases, each containing a single line with an integer $n(1 \leq n \leq 100)$. The input terminates with $n=0$, which should not be processed.

## Output

For each test case, print the number of full bottles of coco-cola that you can drink.

## Spoiler

Let me tell you how to drink 5 full bottles with 10 empty bottles: get 3 full bottles with 9 empty bottles, drink them to get 3 empty bottles, and again get a full bottle from them. Now you have 2 empty bottles. Borrow another empty bottle from the shop, then get another full bottle. Drink it, and finally return this empty bottle to the shop!

## Sample Input

3
10
81
0

## Sample Output

1
5
40

