**Integer Inquiry**

**Time Limit: 2000/1000 MS (Java/Others)    Memory Limit: 65536/32768 K (Java/Others)  
Total Submission(s): 13666    Accepted Submission(s): 3447**

**Problem Description**

One of the first users of BIT's new supercomputer was Chip Diller. He extended his exploration of powers of 3 to go from 0 to 333 and he explored taking various sums of those numbers.   
``This supercomputer is great,'' remarked Chip. ``I only wish Timothy were here to see these results.'' (Chip moved to a new apartment, once one became available on the third floor of the Lemon Sky apartments on Third Street.)

**Input**

The input will consist of at most 100 lines of text, each of which contains a single VeryLongInteger. Each VeryLongInteger will be 100 or fewer characters in length, and will only contain digits (no VeryLongInteger will be negative).   
  
The final input line will contain a single zero on a line by itself.

**Output**

Your program should output the sum of the VeryLongIntegers given in the input.   
  
  
This problem contains multiple test cases!  
  
The first line of a multiple input is an integer N, then a blank line followed by N input blocks. Each input block is in the format indicated in the problem description. There is a blank line between input blocks.  
  
The output format consists of N output blocks. There is a blank line between output blocks.

**Sample Input**

1

123456789012345678901234567890

123456789012345678901234567890

123456789012345678901234567890

0

**Sample Output**

370370367037037036703703703670

**Source**

[East Central North America 1996](http://acm.hdu.edu.cn/search.php?field=problem&key=East+Central+North+America+1996&source=1&searchmode=source)

**Recommend**

We have carefully selected several similar problems for you:  [1753](http://acm.hdu.edu.cn/showproblem.php?pid=1753) [1250](http://acm.hdu.edu.cn/showproblem.php?pid=1250) [1568](http://acm.hdu.edu.cn/showproblem.php?pid=1568) [1065](http://acm.hdu.edu.cn/showproblem.php?pid=1065) [1215](http://acm.hdu.edu.cn/showproblem.php?pid=1215)