

HOME PROFILE



ACADEMIC

For instance 719_{ACM} is equivalent to 53_{10} , since $7 \times 3! + 1 \times 2! + 9 \times 1! = 53$.

CONTESTS

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URI Online Judge | 1429

Factorial Again!

By Ines Kereki = Uruguay Timelimit: 3

Mathew, an engineering freshman, is developing an original positional notation for representing integer numbers.

He called it "A Curious Method" (ACM for short). The ACM notation uses the same digits as the decimal notation,

To convert a number A from ACM to decimal notation you must add k terms, where k is the number of digits of A

(in the ACM notation). The value of the i-th term, corresponding the i-th digit a_i counting from right to left, is $a_i \times i!$.

Mathew has just begun studying number theory, and probably does not know which properties a numbering

system should have, but at the moment he is only interested in converting a number from ACM to decimal. Could

1429



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MY SOLUTION

SOLVED

Input

you help him?

i.e., 0 through 9.

Each test case is given in a single line that contains a non-empty string of at most 5 digits, representing a number in ACM notation. The string does not have leading zeros.

The last test case is followed by a line containing one zero.

Output

For each test case output a single line containing the decimal representation of the corresponding ACM number.

Sample Input	Sample Output
719	53
1	1
15	7
110	8
102	8
0	

ACM/ICPC South America Contest 2010

Time: 0.812

BOOK SUGGESTION

