

# Ternary

**Input:** Standard Input

**Output:** Standard Output

You will be given a decimal number. You will have to convert it to its ternary (Base 3) equivalent.

## Input

The input file contains at most 100 lines of inputs. Each line contains a non-negative decimal integer  $N$  ( $N < 1000000001$ ). Input is terminated by a line containing a negative value. This line should not be processed.

## Output

For each line of input produce one line of output. This line contains the ternary equivalent of decimal value  $N$ .

## Sample Input

10
100
1000
-1

## Output for Sample Input

101
10201
1101001

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