anbbean <mark>Online Judge</mark>

1631 - Triple Fat Lad

Description

Mr. HKP likes to we calculate patterns that emerge in numbers. After completing his long investigation into the squares of numbers, has turned to the cubes. Now wants to find all the numbers whose cube case in 888. Given a number k, Mr. HKP need help for finding the k-th number (starting at index 1) whose cube ends in 888.

Input specification

The first line of input is an integer t, the number of test cases. T test cases follow.

Each test case consists of a line containing a single integer k = 2 trillion).

Output specification

For each test case, print a unique number that denotes the kth number whose cube ends in 888. The result will be less than 2^63.

Sample input

1

1

Sample output

192

Hint(s)

Source Sphere Online Judge

Added by ymondelo20

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Caribbean Online Judge

Time limit (ms) 2000

Test limit (ms) 1000

Memory limit (kb) 130000

Output limit (mb) 64

Size limit (bytes) 30000

C C# C++ Java Pascal Perl PHP Enabled languages

Python Ruby Text