A. Div. 7

time limit per test: 2 seconds
memory limit per test: 512 megabytes
input: standard input
output: standard output

You are given an integer n. You have to change the minimum number of digits in it in such a way that the resulting number **does not have any leading zeroes** and **is divisible by** 7.

If there are multiple ways to do it, print any of them. If the given number is already divisible by 7, leave it unchanged.

Input

The first line contains one integer t ($1 \le t \le 990$) — the number of test cases.

Then the test cases follow, each test case consists of one line containing one integer n ($10 \le n \le 999$).

Output

For each test case, print one integer without any leading zeroes — the result of your changes (i. e. the integer that is divisible by 7 and can be obtained by changing the minimum possible number of digits in n).

If there are multiple ways to apply changes, print any resulting number. If the given number is already divisible by 7, just print it.

Example

input	Copy
3 42 23 377	

output	Copy
42 28 777	

Note

In the first test case of the example, 42 is already divisible by 7, so there's no need to change it.

In the second test case of the example, there are multiple answers — 28, 21 or 63.

In the third test case of the example, other possible answers are 357, 371 and 378. Note that you **cannot** print 077 or 77.