
Problem A. Lucky 7 in the Pocket

Input file: **standard input**
Output file: **standard output**
Time limit: 1 second
Memory limit: 256 megabytes

BaoBao loves number 7 but hates number 4, so he refers to an integer x as a “lucky integer” if x is divisible by 7 but not divisible by 4. For example, 7, 14 and 21 are lucky integers, but 1, 4 and 28 are not.

Today BaoBao has just found an integer n in his left pocket. As BaoBao dislikes large integers, he decides to find a lucky integer m such that $m \geq n$ and m is as small as possible. Please help BaoBao calculate the value of m .

Input

There are multiple test cases. The first line of the input is an integer T (about 100), indicating the number of test cases. For each test case:

The first and only line contains an integer n ($1 \leq n \leq 100$), indicating the integer in BaoBao’s left pocket.

Output

For each test case output one line containing one integer, indicating the value of m .

Example

| standard input | standard output |
|----------------|-----------------|
| 4 | 7 |
| 1 | 7 |
| 7 | 21 |
| 20 | 35 |
| 28 | |