

### Problem

A number  $n$  is said to be special if the sum of its digits is divisible by 4.

For a given integer  $a$ , find a number  $n$  such that:

- $n$  is a special number
- $n \geq a$
- $n$  is minimum possible

### Input format

- The first line contains an integer  $T$  denoting the number of test cases.
- For each test case:
  - The first line contains an integer  $a$ .

### Output format

For each test case, print a number  $n$  that satisfies the above conditions in a new line.

### Constraints

$$1 \leq T \leq 10^5$$

$$1 \leq a \leq 10^3$$

Sample Input	Sample Output
2 432 99	435 103

Time Limit: 1

Memory Limit: 256

Source Limit: