

Binary representation

Write a program to print Binary representation of a given number.

Input:

The first line of input contains an integer T denoting the number of test cases.
The first line of each test case is N.

Output:

Print binary representation of a number in 14 bits.

Constraints:

$$1 \leq T \leq 100$$

$$1 \leq N \leq 5000$$

Example:

Input:

2
2
5

Output:

00000000000010
00000000000101