VSU COPP
I - 'Into Binary'

Problem description

You are given n number of decimal numbers, $a_1, a_2, a_3, \dots, a_n$.

Your task is to convert each decimal number to binary.

Input

The first line contains the integer n, which is the number of decimal numbers to be converted to binary.

The succeeding lines contain the integers $a_1, a_2, a_3, \dots, a_n$.

Output

Print $b_1, b_2, b_3, \dots, b_n$, the binary expansions of $a_1, a_2, a_3, \dots, a_n$.

Constraint

- $0 < n \leq 10^4$
- $0 \leq i < n = \ where\ 0 < a_i \leq 2^{32} - 1$

Sample input/output

Sample input and output for this problem:

Input	Output
8 1234 134 456 3667 19 1 67 56	10011010010 10000110 111001000 111001010011 10011 1 1000011 111000
5 6754675 346357 23676 12 463577	1100111000100010111 0011 1010100100011110101 101110001111100 1100 1110001001011011001