


Assignment Case	
CH1Special	
Periode Berlaku Semester Ganjil 2021/2022 Valid on Odd Semester Year 2021/2022	Software Laboratory Center Assistant Recruitment 22-1

Soal

Case

Complements

A complement of a number is the integer you get when you flip **ones** and **zeroes** bit of that integer. For example:

- The integer 5 when converted to binary is “101”, and its complement is “010” which is 2.

Input

The program will ask for a single number **t**, for the next **t-lines** there will be a number **num**.

Constraint

$$1 \leq t \leq 100$$

$$1 \leq \text{num} \leq 2147483647 \text{ (which is } 2^{31} - 1 \text{)}.$$

Output

Print out all complement of **num**.

Example (Print out one ‘\n’ at the end of the results)

Input	Output
2 5 1	Case 1: 2 Case 2: 0
1 1	Case 1: 0