Reverse Binary Number

In mathematics and digital electronics, a binary number is a number expressed in the base-2 numeral system or binary numeral system, which uses only two symbols: typically 0 (zero) and 1 (one). You are given an integer N and are asked to convert the integer N from decimal base to reverse binary base. Reverse binary base is a binary base of a number that is read from right to left while a normal binary number is read from left to right.

Format Input
Input will consist of integer T which is the number of the test case. The next T line consist a positive integer N.

Format Output
Output your answer with "Case #X: " format and the reverse binary number.

Constraints
1 <= T <= 1000
It is guaranteed N is positive and N is in unsigned integer range.

Sample Input	Sample Output
7 1 2 3 4 5 6 7	Case #1: 1 Case #2: 01 Case #3: 11 Case #4: 001 Case #5: 101 Case #6: 011 Case #7: 111

Hint
Binary Number of 4 is 100 while reverse binary number is 001.