Reversed number in binary   P28754_en

Write a program that reads a number and prints its binary representation reversed.

Input

Input consists of a natural number.

Output

Print, reversed, the binary representation of the number, with as many zeros at its left as required.

Sample input 1	Sample output 1
16	00001

Sample input 2	Sample output 2
1023	1111111111

Sample input 3	Sample output 3
90800	00001101010001101

Sample input 4	Sample output 4
65547	11010000000000001

Sample input 5	Sample output 5
0	0

Problem information

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