
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

16

Sample output 1

00001

Sample input 2

1023

Sample output 2

1111111111

Sample input 3

90800

Sample output 3

00001101010001101

Sample input 4

65547

Sample output 4

11010000000000001

Sample input 5

0

Sample output 5

0

Sample input 6

1000000000

Sample output 6

000000000101001101011001110111

Problem information

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