# F. Binary Notation

time limit per test: 2 seconds memory limit per test: 256 megabytes

input: standard input output: standard output

You are given a positive integer n. Output its binary notation.

## Input

The only line of input data contains an integer n ( $1 \le n \le 10^6$ ).

#### **Output**

Output the binary notation of n (without any leading zeros).

### **Examples**

input	
5	
output	
101	

1	n	p	u	t
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101

# output

1100101

#### **Note**

In the first example  $5 = 1 * 2^2 + 0 * 2^1 + 1 * 2^0$ .