

## B. 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  $n$  ( $1 \leq n \leq 10^6$ ).

### Output

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

### Examples

<b>input</b>
5
<b>output</b>
101

<b>input</b>
13
<b>output</b>
1101

### Note

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