

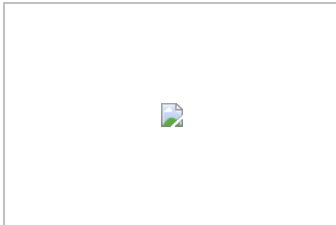
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Reversed Binary Numbers

Problem ID: reversebinary

Yi has moved to Sweden and now goes to school here. The first years of schooling she got in China, and the curricula do not match completely in the two countries. Yi likes mathematics, but now... The teacher explains the algorithm for subtraction on the board, and Yi is bored. Maybe it is possible to perform the same calculations on the numbers corresponding to the reversed binary representations of the numbers on the board? Yi dreams away and starts constructing a program that reverses the binary representation, in her mind. As soon as the lecture ends, she will go home and write it on her computer.

Task

Your task will be to write a program for reversing numbers in binary. For instance, the binary representation of 13 is 1101, and reversing it gives 1011, which corresponds to number 11.

Input

The input contains a single line with an integer N , $1 \leq N \leq 1000000000$.

Output

Output one line with one integer, the number we get by reversing the binary representation of N .

Sample input 1

13

Sample output 1

11

Sample input 2

47

Sample output 2

61

Solved puzzles & got hired



Elias Freider
Software Engineer

Jimmy Mårdell
Software Engineer



Pär
Bohrarper
Software
Engineer

Submit response

To submit a solution to a problem,
send an e-mail to

puzzle@spotify.com

Include your source code files as
attachments and the problem id or
problem name as subject. Within
minutes you will get a reply
indicating whether your source code
solved the problem, and if it didn't,
an indication of what was wrong.
Your source code can be in C, C++,
Java, or Python (version 2.6). Input
is read from stdin.

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