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G. Flip the Bits

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

You are given a positive integer n. Your task is to build a number m by flipping the minimum number of bits in the binary representation of n such that m is less than n ($m \le n$) and it is as maximal as possible. Can you?

Inpu

The first line contains an integer T ($1 \le T \le 10^5$) specifying the number of test cases.

Each test case consists of a single line containing one integer n ($1 \le n \le 10^{9}$), as described in the statement above.

Output

For each test case, print a single line containing the minimum number of bits you need to flip in the binary representation of n to build the number m.

Example			
input input	Сор		
2			
5 10			
10			
output	Сор		
1			
2			





<u>Day 1</u>		
Co	ntest is running	
	01:52:06	
	Contestant	
	Ŕ	



→ Last submissions		
Submission	Time	Verdict
<u>106317578</u>	Feb/02/2021 23:19	Accepted

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The only programming contests Web 2.0 platform
Server time: Feb/02/2021 15:36:52^{urc-6} (i2).
Desktop version, switch to mobile version.

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