## Log2

Input file: standard input Output file: standard output

Time limit: 1 second Memory limit: 256 megabytes

Given a number N. Print  $\lfloor log_2(N) \rfloor$ .

Note: Solve this problem using recursion.

## Input

Only one line containing a number N  $(1 \le N \le 10^{18})$ .

## Output

Print the answer required above.

## **Examples**

standard input	standard output
1	0
8	3