

# 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  $N$  ( $1 \leq N \leq 10^{18}$ ).

## Output

Print the answer required above.

## Examples

standard input	standard output
1	0
8	3