

## Problem E. Odd-even

Input file:                `oddeven.in`  
Output file:              `oddeven.out`  
Time limit:               2 seconds  
Memory limit:            256 megabytes  
Detailed Feedback:      full

You are given an increasing sequence of positive integers 1, 2, 4, 5, 7, 9, 10, 12, 14, 16, 17, ... It is formed by taking one odd integer, then two even integers, then three odd integers and so on. Output  $N$ -th element of this sequence.

### Input

One positive integer  $N$  ( $1 \leq N \leq 10^{100}$ ).

### Output

Output one integer  $N$ -th element of the sequence.

### Examples

<code>oddeven.in</code>	<code>oddeven.out</code>
1	1
4	5

50% of tests contain  $N \leq 10^{18}$ .