## Problem A. $2 x+2$

Input file: standard input
Output file: standard output
Time limit: 1 second
Memory limit: 512 mebibytes
bobo has $n$ integers $1,2, \ldots, n$ and uses them to play a game.
He would like to choose a subset $S$ of $\{1,2, \ldots, n\}$ such that for all $x \in S,(2 x+2) \notin S$.
Now he is curious about the maximum size of $S$.

## Input

The first line contains an integer $n\left(1 \leq n<10^{100}\right)$.

## Output

A single integer denotes the maximum size.

## Examples

| standard input | standard output |
| :--- | :--- |
| 4 | 3 |
| 10000000000 | 6666666667 |

