

## Problem J. Jimp Numbers

Input file: *standard input*  
Output file: *standard output*  
Time limit: 2 seconds  
Memory limit: 512 mebibytes

A positive integer  $k$  is called a *jimp number* if there is exactly one triple of positive integers  $(a, b, c)$  such that  $a, b,$  and  $c$  are consecutive terms of an arithmetic progression (exactly in that order) and  $a^2 + b^2 + k = c^2$ .

Count the jimp numbers which are not greater than the given number  $n$ .

### Input

The only line contains a single integer  $n$  ( $1 \leq n \leq 10^{11}$ ).

### Output

Print a single integer: the answer to the problem.

### Examples

standard input	standard output
5	2
100	25