

2780 - SQUARES

Description

Farmer John is playing a game with Bessie. He picks two positive integers A and B ($1 \leq B \leq A \leq 500$), and Bessie is supposed to deduce which numbers he picked. He gave Bessie the following hint:

"The numbers I chose have the property that the square of the larger number is N ($1 \leq N \leq 1,000$) larger than the square of the smaller number"

Being a smart cow, Bessie knows that this hint will greatly reduce the number of possibilities for A and B. However, she is asking you to help by writing a program to compute the exact number of solutions possible.

Input specification

Line 1: A single integer: N

Output specification

Line 1: A single integer representing the number of possible solutions

Sample input

15

Sample output

2

Hint(s)

There are two solutions: (A, B) = (4, 1) and (A, B) = (8, 7)

Source	USACO[Neal Wu]
Added by	jbpineiro
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Time limit (ms)	10000

Caribbean Online Judge

Test limit (ms)	1000
Memory limit (kb)	130000
Output limit (mb)	64
Size limit (bytes)	15000
Enabled languages	Bash C C# C++ Java Pascal Perl PHP Python Ruby Text