

# A Real Challenge

**Problem ID:** areal  
**CPU Time limit:** 1 second  
**Memory limit:** 1024 MB  
**Difficulty:** 1.6

Old MacDonald had a farm, and on that farm she had a square-shaped pasture, and on that pasture she had a cow that was prone to escape. So now Old MacDonald wants to set up a fence around the pasture. Given the area of the pasture, how long a fence does Old MacDonald need to buy?



*Cow image from  
Pixabay*

## Input

The input consists of a single integer  $a$  ( $1 \leq a \leq 10^{18}$ ), the area in square meters of Old MacDonald's pasture.

## Output

Output the total length of fence needed for the pasture, in meters. The length should be accurate to an absolute or relative error of at most  $10^{-6}$ .

### Sample Input 1

16

### Sample Output 1

16

### Sample Input 2

5

### Sample Output 2

8.94427190999915878564

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