VM7WC '15 #4 Bronze - Melanie's Cradles

Time limit: 2.0s   **Memory limit:** 64M

Melanie has a circular desk and many Newton's cradles she wants to fit on it. If the center of the desk is treated as $(0, 0)$ and each Newton's cradle can only be placed on a lattice point (points with integer coordinates), what is the maximum amount of Newton's cradles that can be placed on the desk given radius R $(1 \le R \le 100)$?

Input Specification

A single integer, R.

Output Specification

The number of cradles that can be put on the desk.

Sample Input

```
1
```

Sample Output

```
5
```