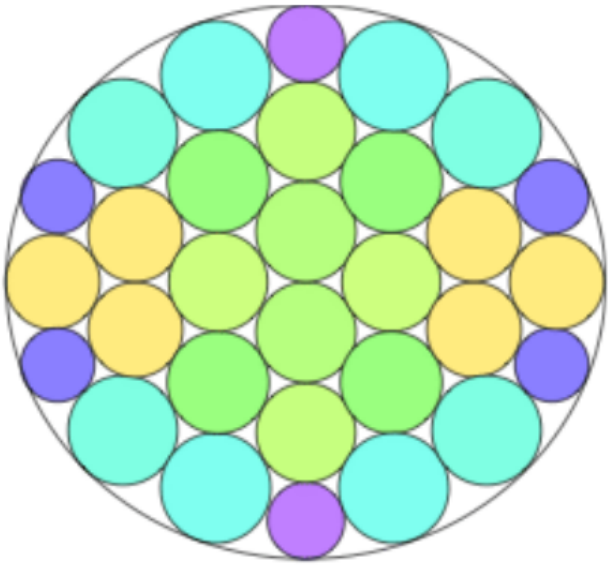
UVa Online Judge

13199 Circles in Ellipse

The following picture shows the best way to have 30 circles with the largest possible sum of radii packed inside an ellipse with perimeter $2\pi * A$. Given A, you will compute $\sum R$, the sum of all radii over the 30 circles. Each color represent a circle of different size.



Input

A number of of inputs, each line with an integer $0 \leq A \leq 1000000000$.

Output

Output the answer rounded to an integer.

Sample Input

```
1
10
100
```

Sample Output

```
5
50
503
```