



Ojulat

Massoud for his younger brother an ujolat! He bought a big square. But this Ojulat is the height of Masoud's brother. Masoud wants to divide these ujolats into smaller pieces, but since Masoud is a person (always) tired, he wants to do this with a limited number of cuts, and since he doesn't look for trouble, he makes these cuts parallel to the sides of the square. . He wants to know, with a limited number of cuts, what is the maximum number of pieces of ujolat?

Input

The only input is a larger natural number equal to 1.

Output

The output is the maximum possible number of Ojolots.

Example

Sample input 1



▼ Questions

100

The broken heart of Genghis

100

grand theft

100

Pythagorean numbers

150

!!!R

150

second degree equation

100

Ojulat

200

head of water

All submissions

Final submissions

Scoreboard

3

Sample output 1

6

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